Pioneer sound.vision.soul

Service Manual

ORDER NO.
RRV3749

AUDIO MULTI-CHANNEL RECEIVER

SX-218-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SX-218-K	KUCXJ	AC 120 V	

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
SX-316-S/KUCXJ	RRV3330	

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2008**

T-ZZK MAR. 2008 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω	→ 56 x 10^1 →	561	RD1/4PU561J
47kΩ	→ 47 x 10^3 →	473	RD1/4PU473J
0.5Ω	→	R50	RN2HR50K
1Ω	→	1R0	RS1P1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	→ 562 x 10^1 →	5621	RN1/4PC5621F

CONTRAST TABLE

SX-316-S/KUCXJ and SX-218-K/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SX-316-S/KUCXJ	SX-218-K/KUCXJ	Remarks
		PACKING SECTION			
	P7- 6	Operating Instructions (English/French)	XRE3113	XRE3196	
	P7-11	Remote control	XXD3108	XXD3175	
	P7-15	Packing Case	XHD3586	XHD3822	
		EXTERIOR SECTION			
	P9-24	R Panel	XNC3420	XNC3608	
	P9-32	Bonnet	XZN3184	XZN3183	
		Screw	BBZ30P080FNI	BBZ30P080FTB	the side of Bonnet
		FRONT PANEL SECTION			
	P11- 6	JOG Knob	XAB3048	XAB3052	
	P11- 7	VOL Knob	XAB3051	XAB3053	
	P11- 8	Standby BTN	XAD3203	XAD3202	
NSP	P11-10	F Panel Assy	XXG3257	XXG3380	
	P11-11	Tuner BTN	XAD3248	XAD3230	
	P11-12	SUB BTN	XAD3249	XAD3231	
	P11-13	FUNC BTN	XAD3250	XAD3232	
	P11-14	Listen BTN	XAD3251	XAD3233	
	P11-15	JOG Button	XAD3252	XAD3240	
	P11-16	Pioneer Badge	VAM1129	XAM3006	
	P11-17	FRT Panel	XMB3236	XMB3340	

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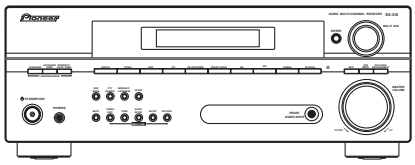
Service Manual



SX-316-S

ORDER NO.
RRV3330

AUDIO MULTI-CHANNEL RECEIVER

SX-316-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWINGMODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SX-316-S	KUCXJ	AC 120 V	
SX-316-S	MYXJ5	AC 220 V to 230 V	

For details, refer to "Important Check Points for Good Servicing".

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ⓒ**PIONEER CORPORATION 2006**

T-ZZK MAY 2006 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

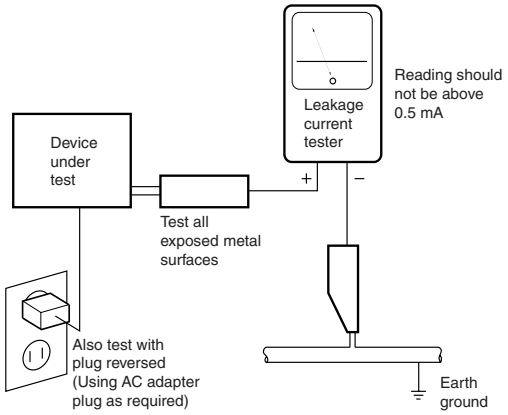
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

SX-316-S/KUCXJ

Amplifier section

Continuous power output

Front

····· 100 W per channel* (200 Hz to 20 kHz, 0.7 %**, 8 Ω)

Center ····· 100 W*(200 Hz to 20 kHz, 0.7 %**, 8 Ω)

Surround

····· 100 W per channel*(200 Hz to 20 kHz, 0.7 %**, 8 Ω)

Subwoofer ····· 100 W*(45 Hz to 200 kHz, 0.7 %**, 8 Ω)

RMS Power Output

Front ····· 144 W per channel (1 kHz, THD, 10 %, 8 Ω)

Center ····· 144 W (1 kHz, THD, 10 %, 8 Ω)

Surround ····· 144 W per channel (1 kHz, THD, 10 %, 8 Ω)

Subwoofer ····· 144 W (1 kHz, THD, 10 %, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

FM Tuner Section

Frequency Range ····· 87.5 MHz to 108 MHz

Antenna Input (DIN) ····· 75 Ω unbalanced

AM Tuner Section

Frequency Range ····· 530 kHz to 1 700 kHz

Antenna ····· Loop antenna

Miscellaneous

Power requirements ····· AC 120 V / 60 Hz

Power consumption ····· 320 W / 420 VA

In standby ····· 0.5 W

Dimensions

·····16 9/16 in. (W) x 6 1/4 in. (H) x 13 11/16 in.(D)

420 mm (W) x 158 mm(H) x 348 mm(D)

Weight (without package) 19.0 lb (8.6 kg)

Furnished Parts

AM loop antenna ····· 1

FM wire antenna ····· 1

AA size IEC R6 dry cell batteries (to confirm system operation) ····· 2

Remote control ····· 1

Mini-plug audio cable ····· 1

Operating instructions

Note

Specifications and the design are subject to possible modifications without notice, due to improvements.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc.

SX-316-S/MYXJ5

Amplifier section

Continuous Power Output (stereo)

Front . . . . . 100 W (DIN 1 kHz, THD, 1.0 %, 8 Ω)

Power Output (surround)

Front

. . . . 100 W per channel (1 kHz, 1.0 % THD, 8 Ω)

Center . . . . . 100 W (1 kHz, 1.0 % THD, 8 Ω)

Surround . . . . . 100 W per channel (1 kHz, 1.0 % THD, 8 Ω)

Subwoofer . . . .100 W (100 Hz, 1.0 % THD, 8 Ω)

RMS Power Output

Front

. . . . .130 W per channel (1 kHz, 10 % THD, 8 Ω)

Center . . . . . .130 W (1 kHz, 10 % THD, 8 Ω)

Surround . . . . . 130 W per channel (1 kHz, 10 % THD, 8 Ω)

Subwoofer . . . . 130 W (100 Hz, 10 % THD, 8 Ω)

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz

Antenna Input. . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 531 kHz to 1 602 kHz

Antenna . . . . . Loop antenna

Miscellaneous

Power requirements

. . . . . AC 220V to 230 V, 50 Hz/ 60 Hz

Power consumption. . . . . 320 W

In standby. . . . . 0.5 W

Dimensions

. . . . . 420 mm (W) x 158 mm (H) x 348 mm (D)

Weight (without package). . . . . 8.5 kg

Furnished Parts

AM loop antenna 1

FM wire antenna 1

AA size IEC R6 dry cell batteries (to confirm system operation). 2

Remote control. 1

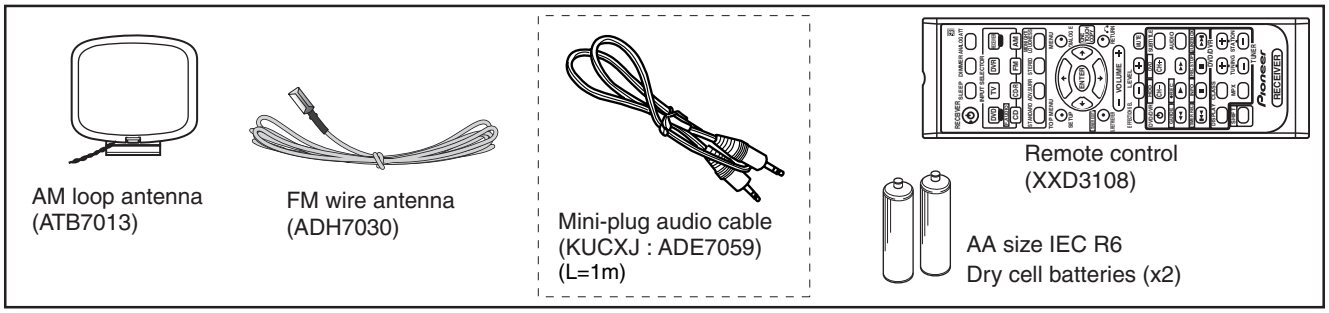
Warranty card. 1

Operating instructions

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

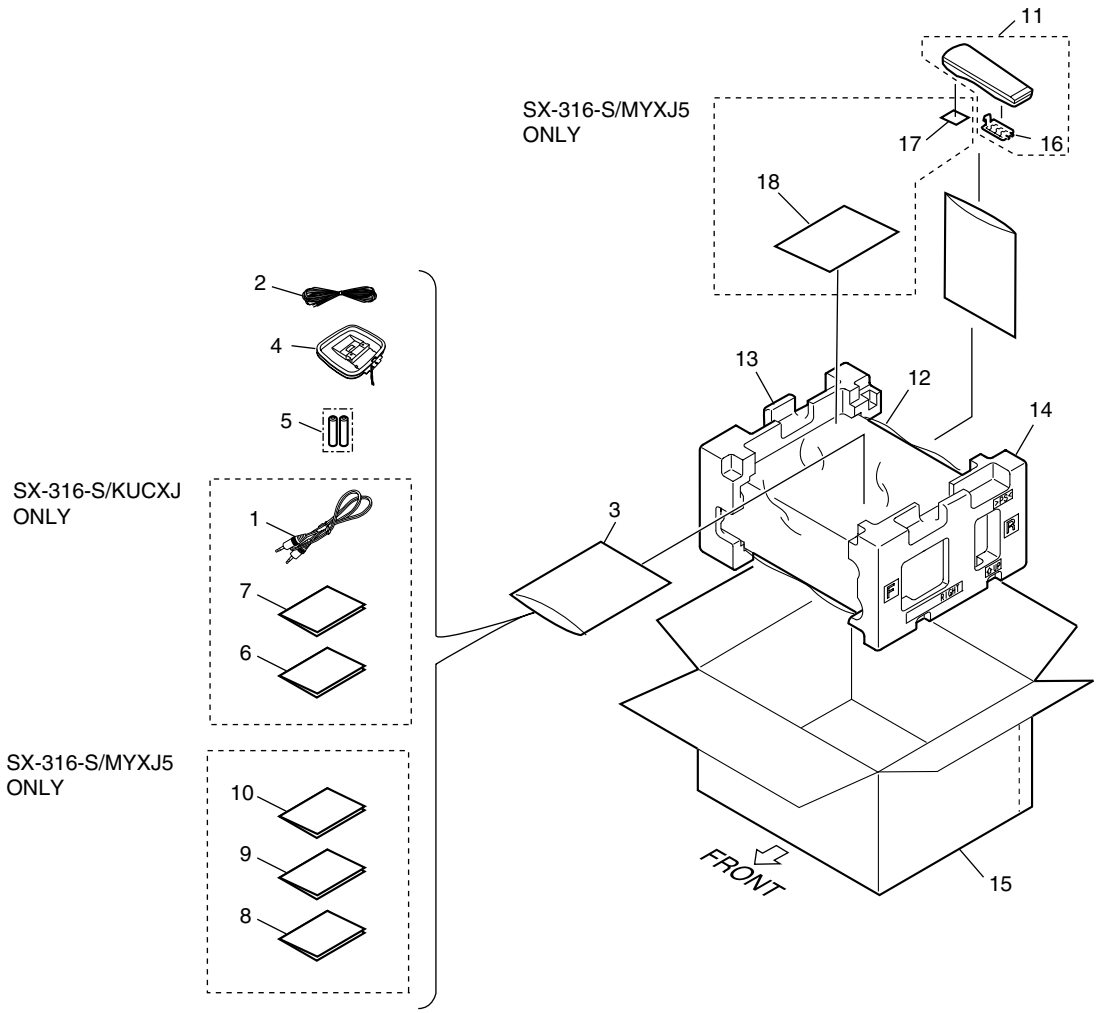
Accessories



2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING



(1) PACKING SECTION PARTS LIST

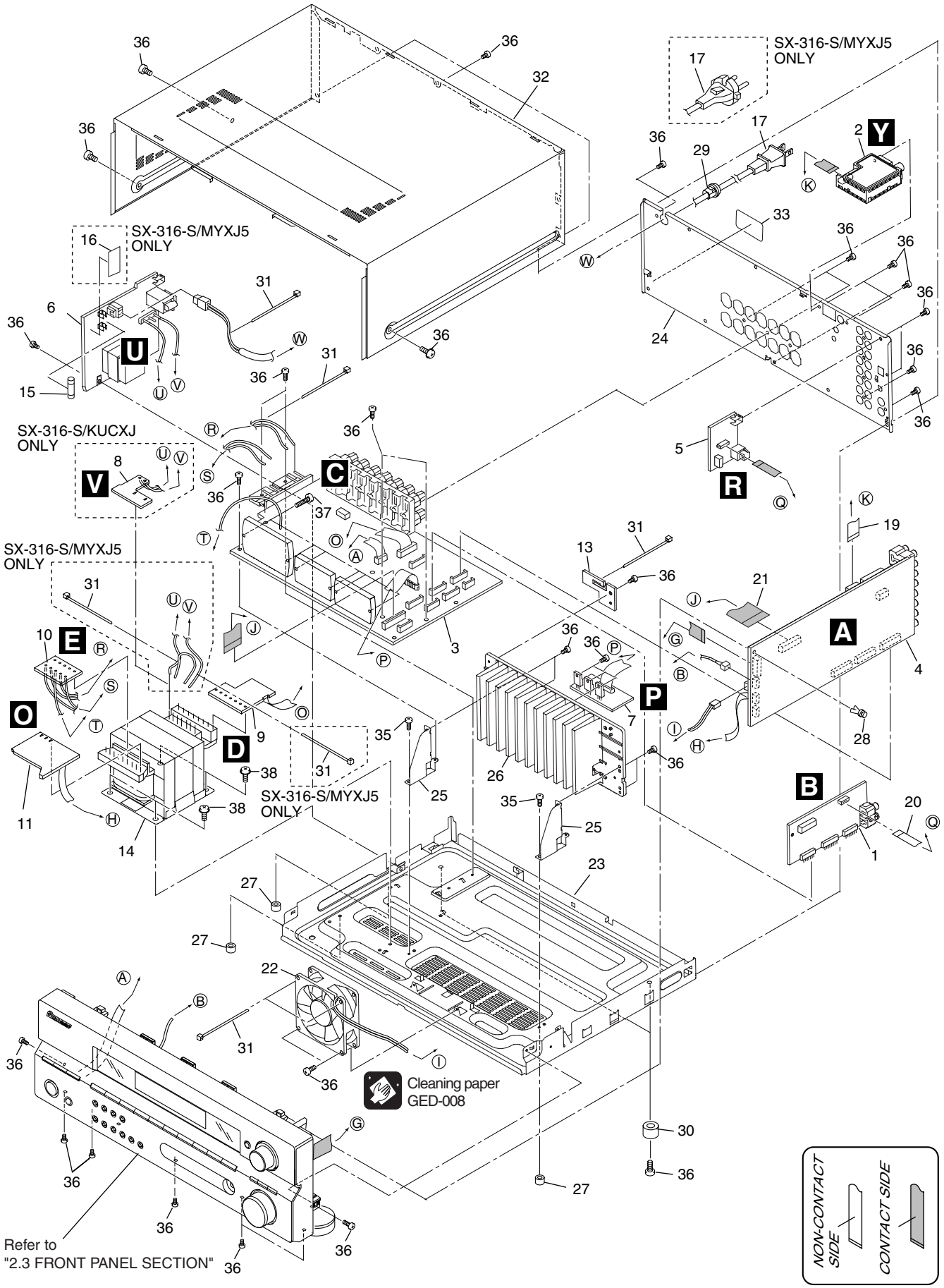
Mark	No.	Description	Part No.
	1	Mini-plug Audio Cable	See Contrast table(2)
	2	FM Wire Antenna	ADH7030
NSP	3	Polyethylene Bag	See Contrast table(2)
	4	AM Loop Antenna	ATB7013
NSP	5	Dry cell batteries (AA/R6) 2P	XEX3002
	6	Operating Instructions (English/French)	See Contrast table(2)
	7	Operating Instructions Safety (English/French)	See Contrast table(2)
	8	Operating Instructions (Dutch/Spanish)	See Contrast table(2)
	9	Operating Instructions (French/German)	See Contrast table(2)
	10	Operating Instructions (English/Italian)	See Contrast table(2)
	11	Remote control	XXD3108
	12	Packing Sheet	AHG7069
	13	Left Pad V3	XHA3158
	14	Right Pad V3	XHA3159
	15	Packing Case	See Contrast table(2)
	16	Battery Cover	XZN3139
	17	Label (WEEE)	See Contrast table(2)
	18	Warranty Card	See Contrast table(2)

(2) CONTRAST TABLE

SX-316-S/MYXJ5 and SX-316-S/KUCXJ are constracted the same except for the following:

Mark	No.	Symbol and Description	SX-316-S /KUCXJ	SX-316-S /MYXJ5
	1	Mini-plug Audio Cable	ADE7059	Not used
NSP	3	Polyethylene Bag	AHG7117	Z21-038
	6	Operating Instructions (English/French)	XRE3113	Not used
	7	Operating Instructions Safety (English/French)	XRE3120	Not used
	8	Operating Instructions (Dutch/Spanish)	Not used	XRC3221
	9	Operating Instructions (French/German)	Not used	XRC3222
	10	Operating Instructions (English/Italian)	Not used	XRE3115
	15	Packing Case	XHD3586	XHD3593
	17	Label (WEEE)	Not used	ARW7322
	18	Warranty Card	Not used	ARY7065

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

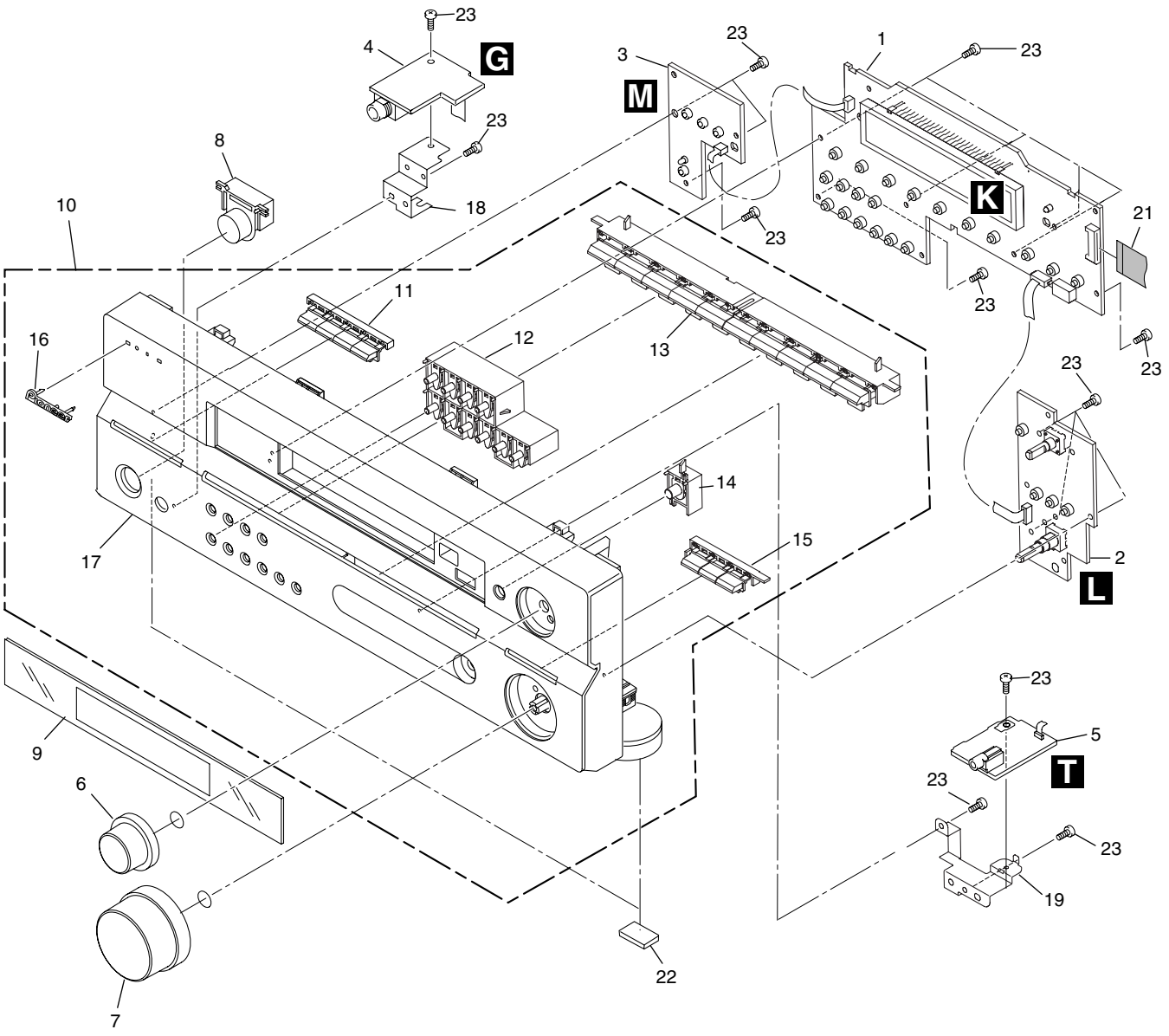
Mark	No.	Description	Part No.
	1	DSP ASSY	AWX8573
	2	FM/AM TUNER UNIT	See Contrast table(2)
	3	POWER PACK ASSY	See Contrast table(2)
	4	MAIN ASSY	See Contrast table(2)
	5	DIGITAL IN ASSY	XWZ4066
	6	PRIMARY ASSY	See Contrast table(2)
	7	REGULATOR ASSY	XWZ4077
	8	TRANS 1 ASSY	See Contrast table(2)
	9	TRANS 2 ASSY	See Contrast table(2)
	10	TRANS 3 ASSY	XWZ4079
	11	TRANS 4 ASSY	XWZ4093
	12	••••••	
	13	BINDER ASSY	XWZ4199
⚠	14	Transformer	See Contrast table(2)
⚠	15	Fuse	See Contrast table(2)
	16	Fuse Card	See Contrast table(2)
⚠	17	AC Power Cord	See Contrast table(2)
	18	••••••	
	19	11P F. F. C/30V	XDD3189
	20	10P F. F. C/30V	XDD3196
	21	17P F. F. C/30V	XDD3203
	22	DC Fan Motor	XXM3012
NSP	23	Chassis	XNA3026
	24	R Panel	See Contrast table(2)
	25	H/S AngleV3	XNG3145
NSP	26	H/Sink	XNH3044
NSP	27	Spacer	AEB7092
	28	Push Rivet (BROWN)	AEC7205
	29	Cord Stopper	See Contrast table(2)
	30	Insulator	XMR3100
NSP	31	Binder (BK-1)	ZCA-BK1
	32	Bonnet	XZN3184
NSP	33	Label	VRW1629
	34	••••••	
	35	Screw	BBZ30P060FCC
	36	Screw	BBZ30P080FNI
	37	Screw	BBZ30P140FTC
	38	Screw	BBZ40P080FNI

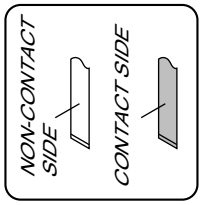
(2) CONTRAST TABLE

SX-316-S/MYXJ5 and SX-316-S/KUCXJ are constracted the same except for the following:

Mark	No.	Symbol and Description	SX-316-S /KUCXJ	SX-316-S /MYXJ5
	2	FM/AM TUNER UNIT	AXX7210	AXX7170
	3	POWER PACK ASSY	XWZ4080	XWZ4117
	4	MAIN ASSY	XWK3227	XWK3244
	6	PRIMARY ASSY	XWZ4128	XWZ4073
	8	TRANS 1 ASSY	XWZ4078	Not used
	9	TRANS 2 ASSY	XWZ4090	XWZ4092
⚠	14	Transformer	XTS3106	XTS3090
⚠	15	Fuse (10A)	REK1154	Not used
⚠	15	Fuse (T3.15A)	Not used	REK1027
	16	Fuse Card	Not used	AAX7493
⚠	17	AC Power Cord	ADG7024	VDG1080
	24	R Panel	XNC3420	XNC3421
	29	Cord Stopper	CM-22C	CM-22B

2.3 FRONT PANEL SECTION





(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT DISPLAY ASSY	XWZ4165
	2	R. ENCODER ASSY	XWZ4055
	3	POWER KEY ASSY	XWZ4056
	4	HP ASSY	XWZ4095
	5	FRONT INPUT ASSY	XWZ4124
	6	JOG Knob	XAB3048
	7	VOL Knob	XAB3051
	8	STDBY BTN	XAD3203
	9	D Panel V3CL	XAK3529
NSP	10	F PANEL Assy	See Contrast table(2)
	11	Tuner BTN	XAD3248
	12	SUB BTN	XAD3249
	13	FUNC BTN	XAD3250
	14	JOG Button	XAD3251
	15	JOG Button	XAD3252
	16	PIONEER Badge	VAM1129
	17	FRT Panel	See Contrast table(2)
	18	Earth Plate HP V2	XNG3131
	19	Earth Plate FR V3	XNG3144
	20	••••••	
	21	17P F.F.C/30V	XDD3200
	22	Rubber Sheet	AEB1111
	23	Screw	BPZ30P080FTC

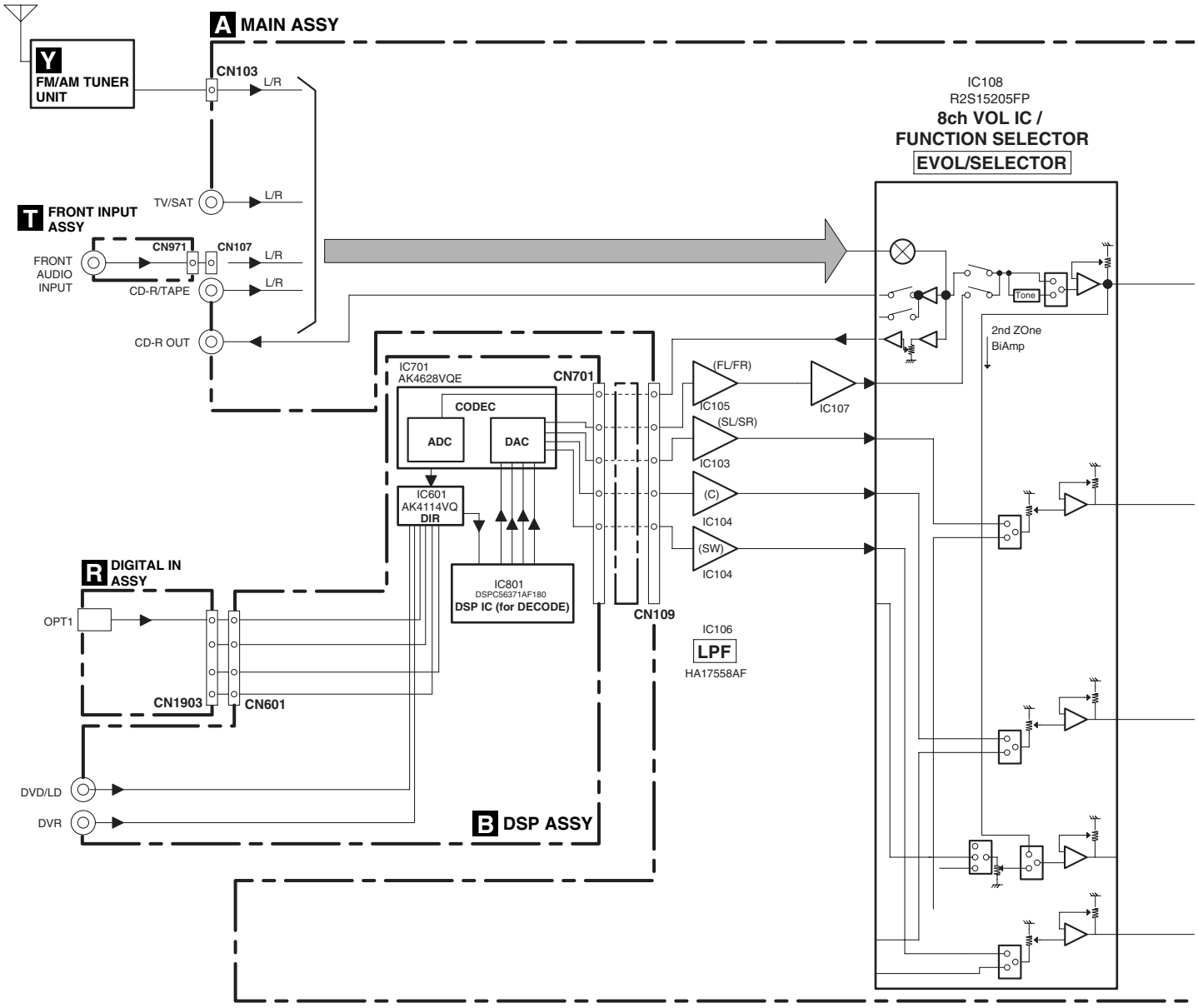
(2) CONTRAST TABLE

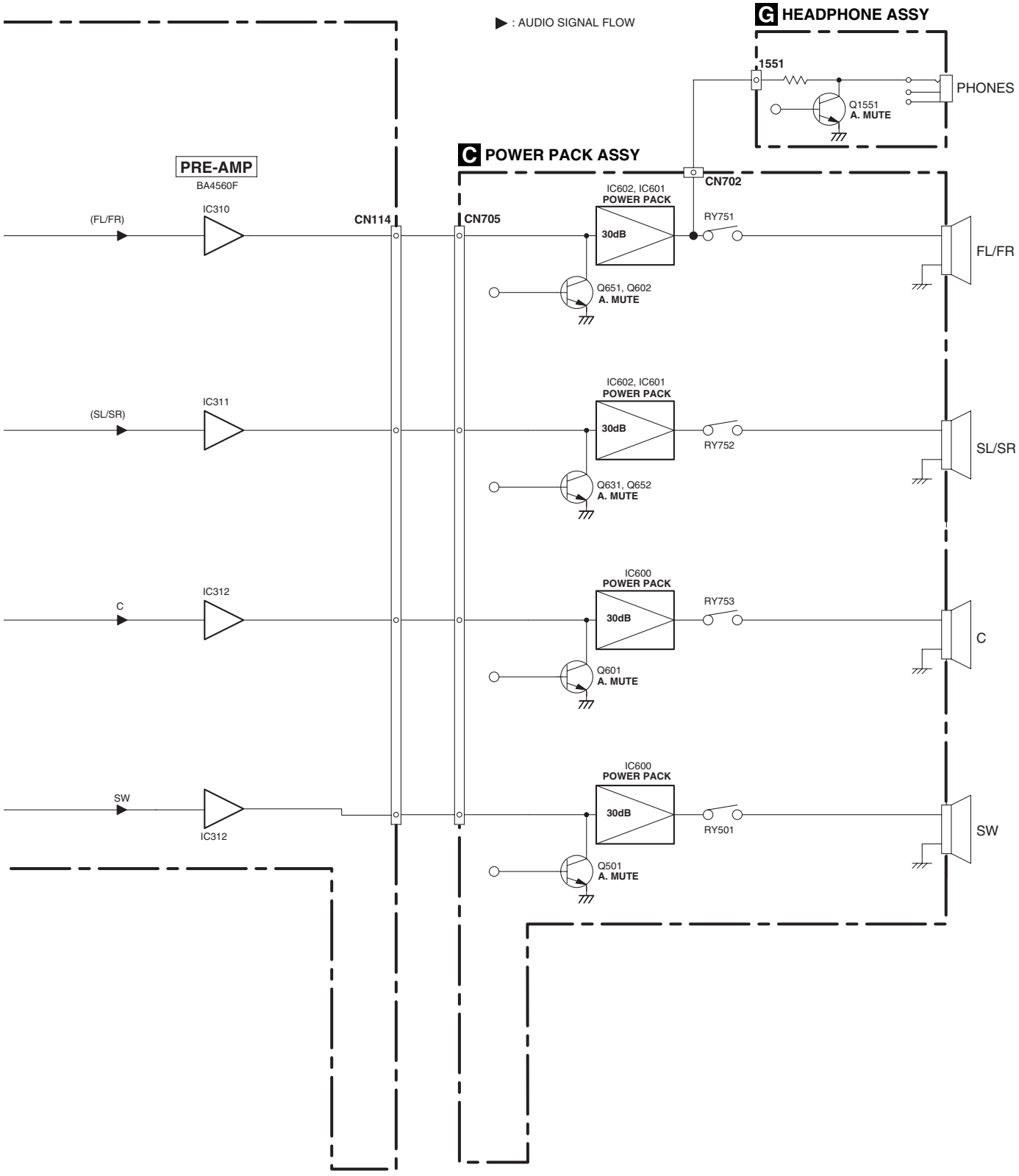
SX-316-S/MYXJ5 and SX-316-S/KUCXJ are constracted the same except for the following:

Mark	No.	Symbol and Description	SX-316-S /KUCXJ	SX-316-S /MYXJ5
NSP	10	F Panel Assy	XXG3257	XXG3258
	17	FRT Panel	XMB3236	XMB3237

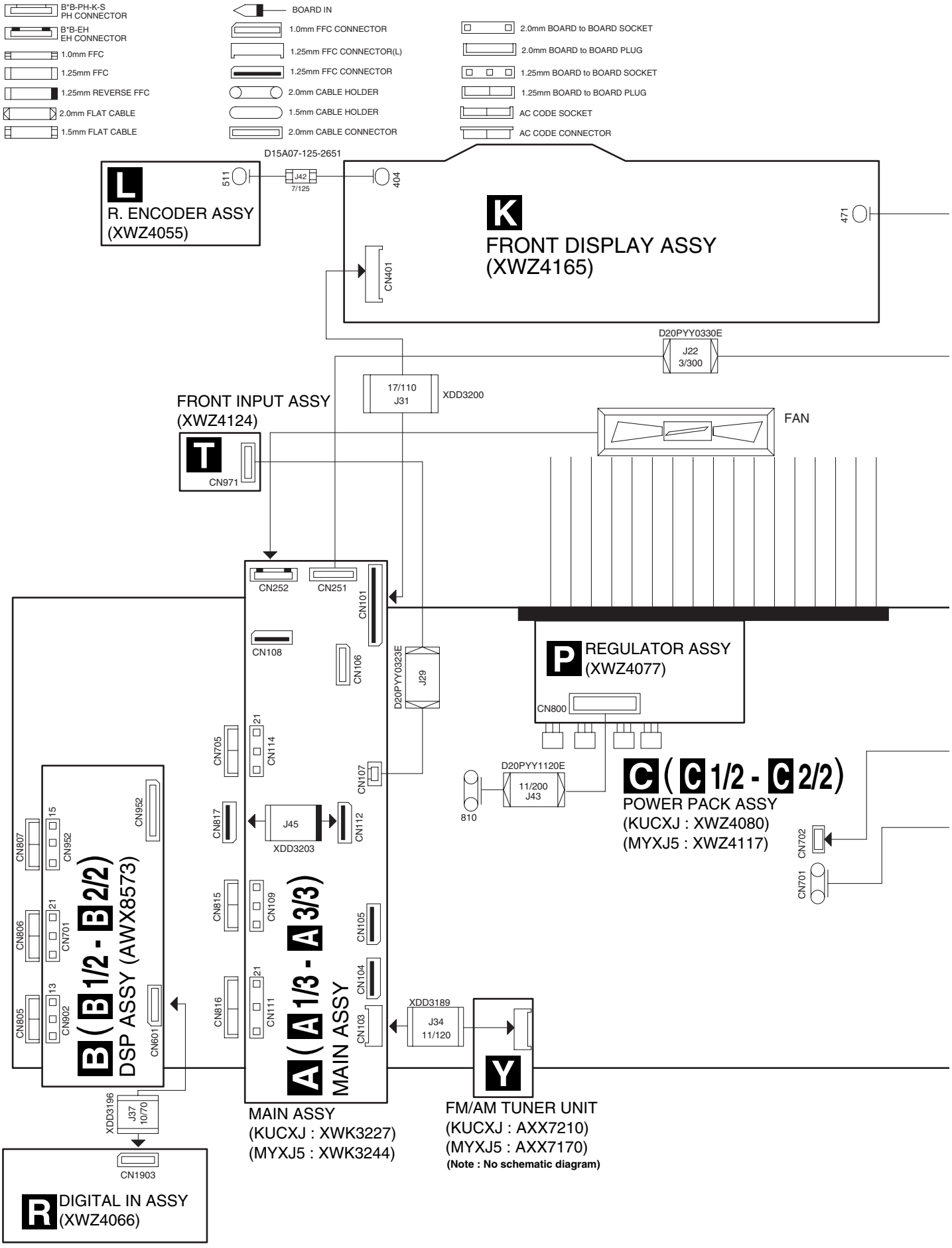
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

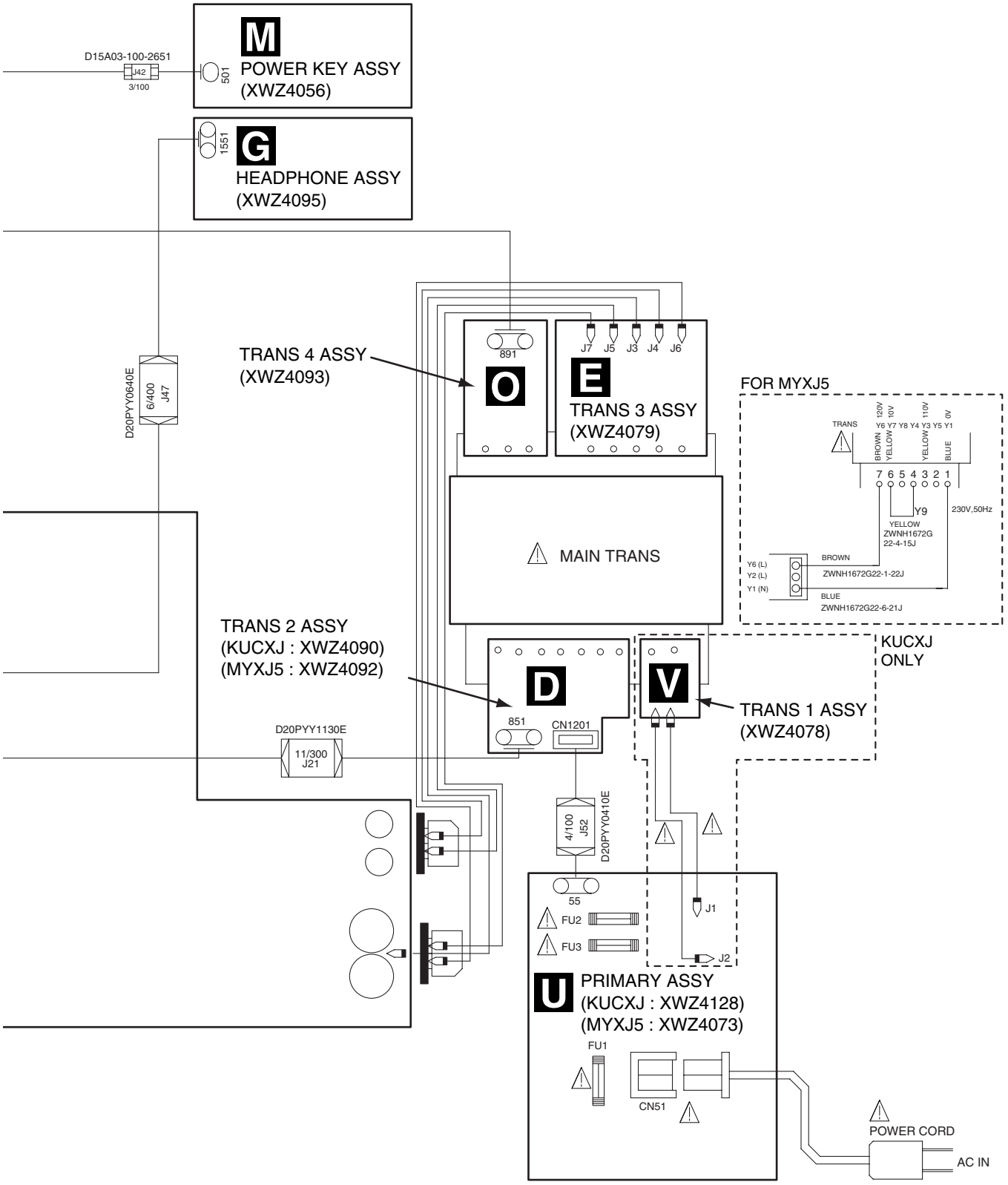



▶ : AUDIO SIGNAL FLOW
G HEADPHONE ASSY
1551
PHONES
Q1551
A. MUTE
C POWER PACK ASSY
CN702
PRE-AMP
BA4560F
(FL/FR)
IC310
CN114
CN705
IC602, IC601
POWER PACK
30dB
RY751
FL/FR
Q651, Q602
A. MUTE
(SL/SR)
IC311
IC602, IC601
POWER PACK
30dB
RY752
SL/SR
Q631, Q652
A. MUTE
C
IC312
IC600
POWER PACK
30dB
RY753
C
Q601
A. MUTE
SW
IC312
IC600
POWER PACK
30dB
RY501
SW
Q501
A. MUTE

3.2 OVERALL WIRING CONNECTION DIAGRAM

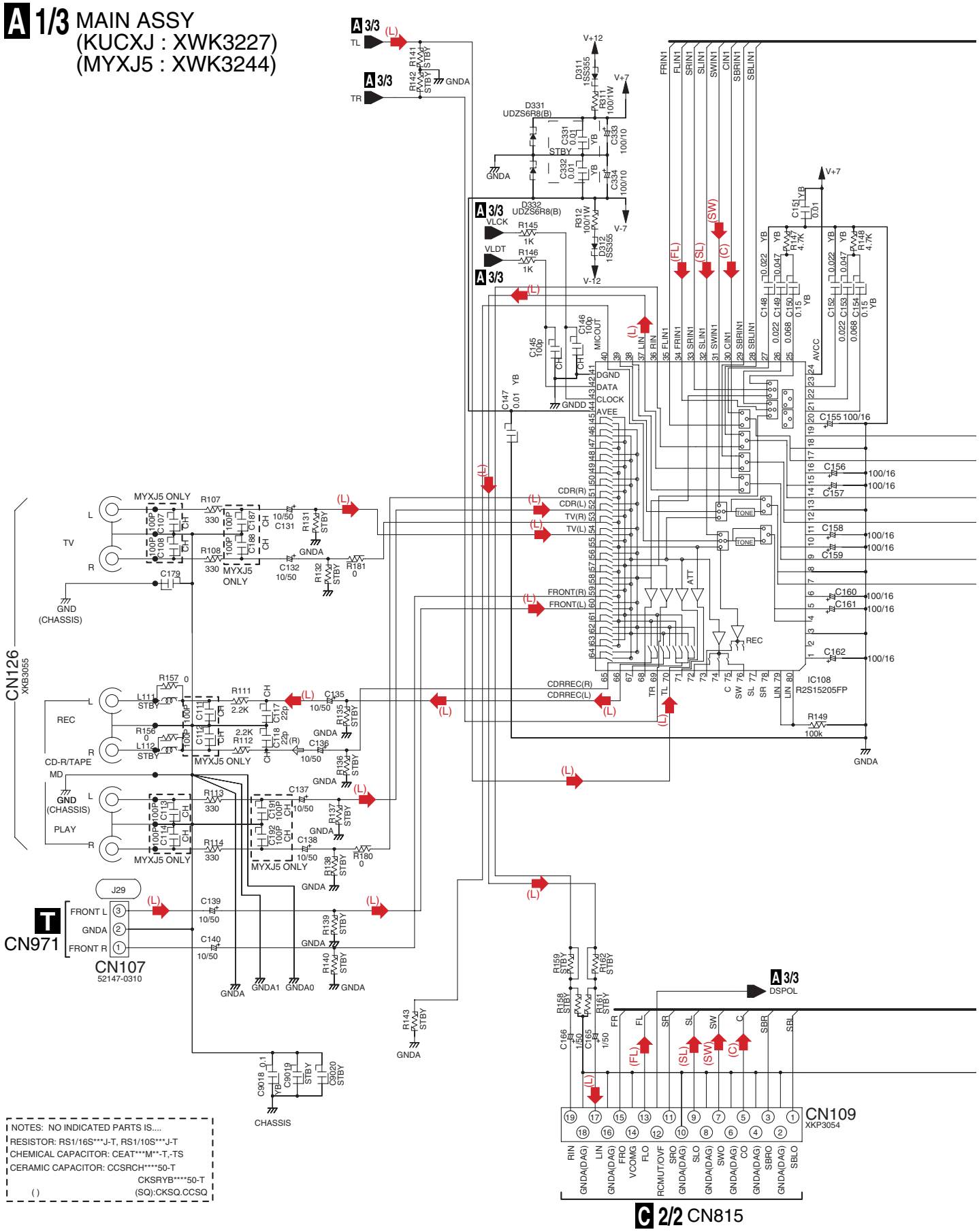


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

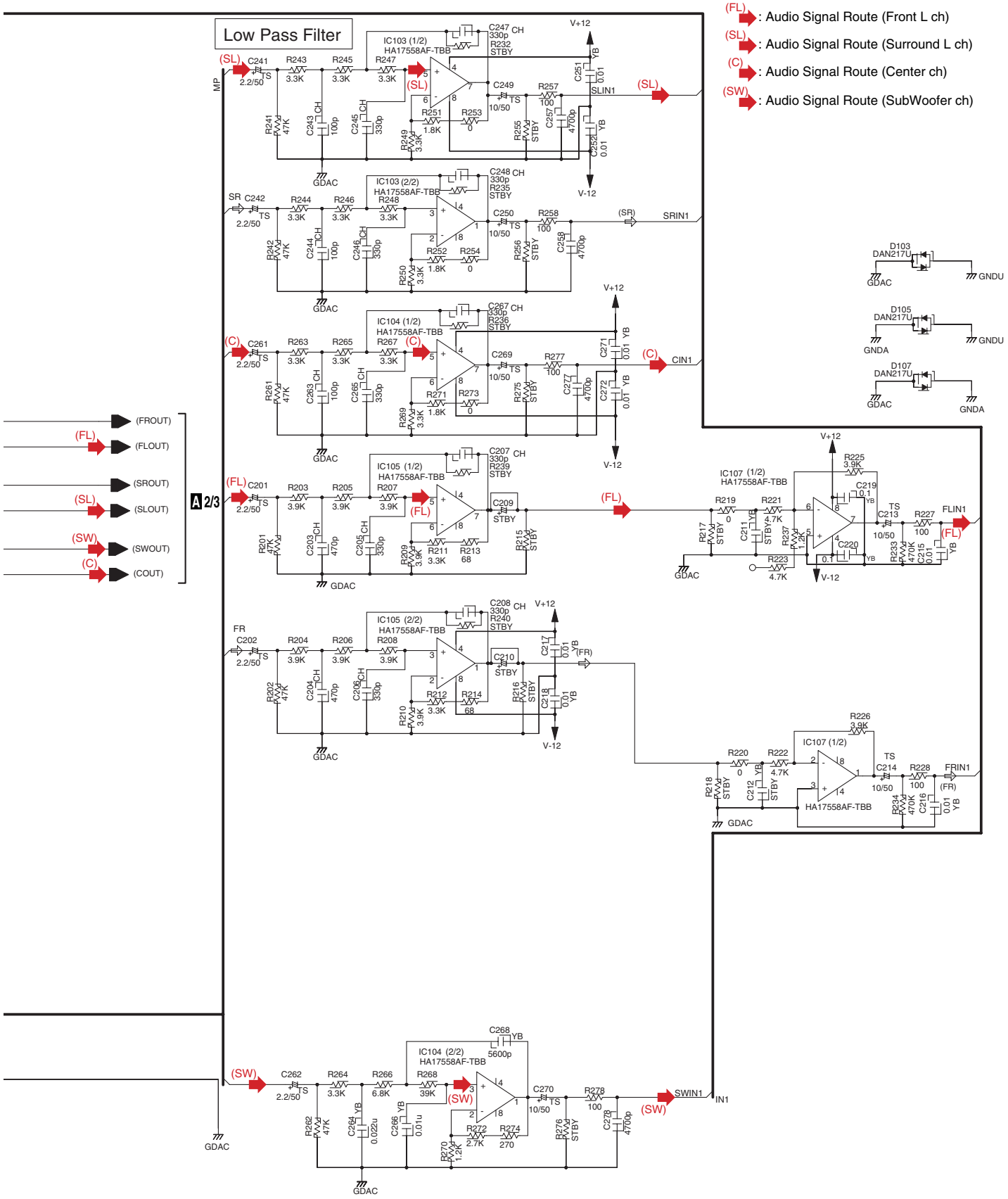


3.3 MAIN ASSY (1/3)

A 1/3 MAIN ASSY
(KUCXJ : XWK3227)
(MYXJ5 : XWK3244)



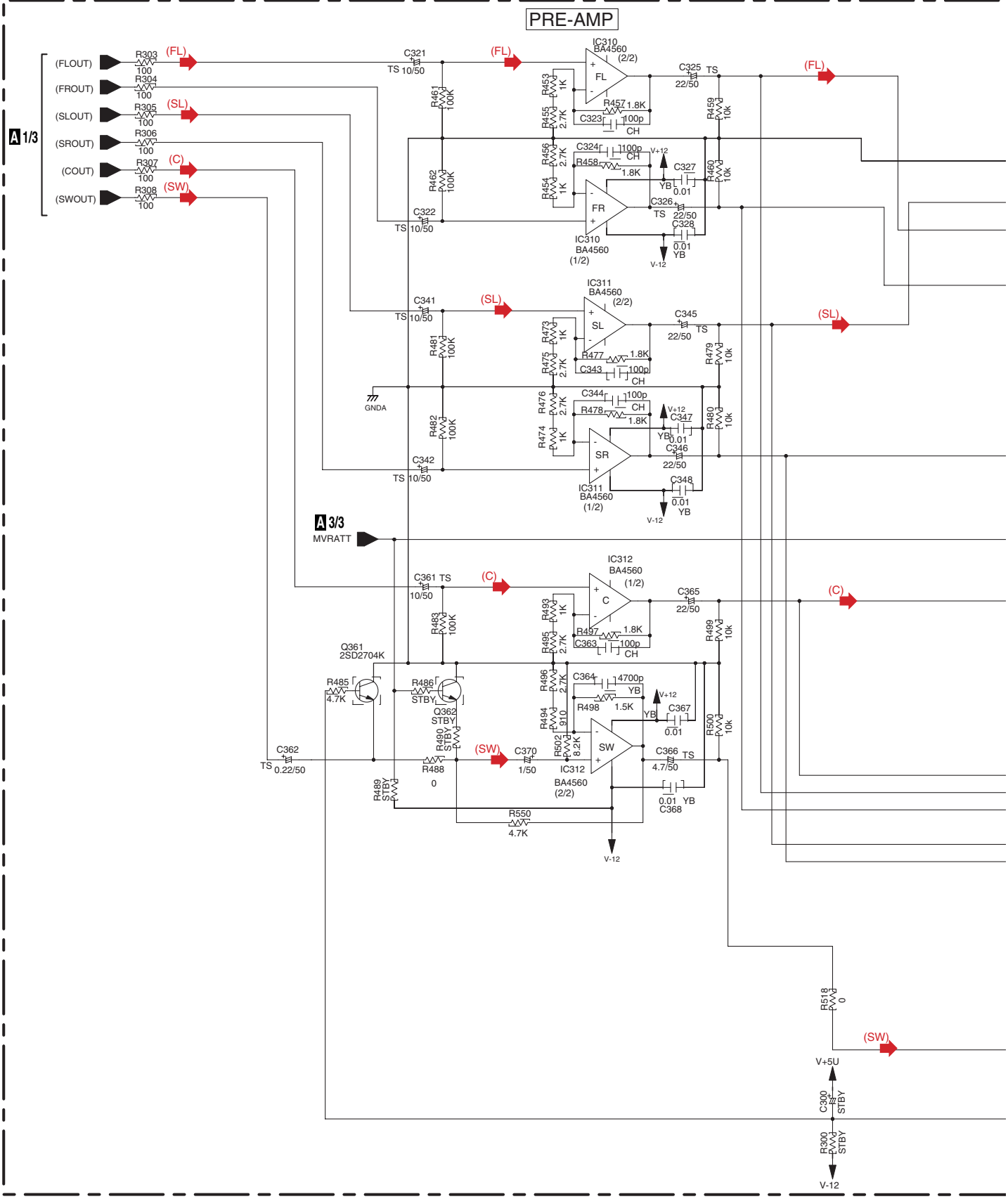
(L) : Audio Signal Route (L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SW) : Audio Signal Route (SubWoofer ch)



A 1/3

3.4 MAIN ASSY (2/3)

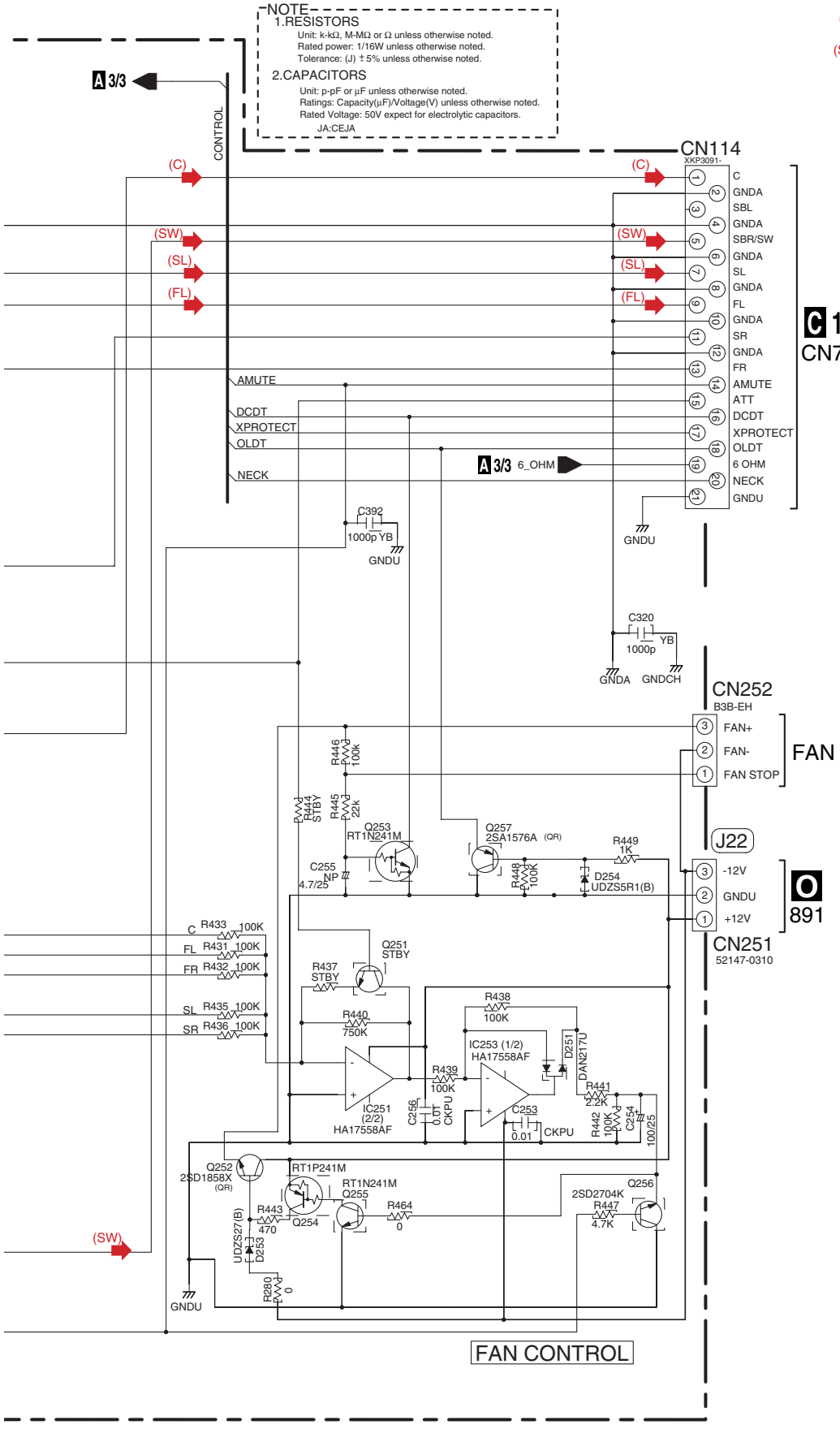
A 2/3 MAIN ASSY
(KUCXJ : XWK3227)
(MYXJ5 : XWK3244)



A 2/3

(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SW): Audio Signal Route (SubWoofer ch)

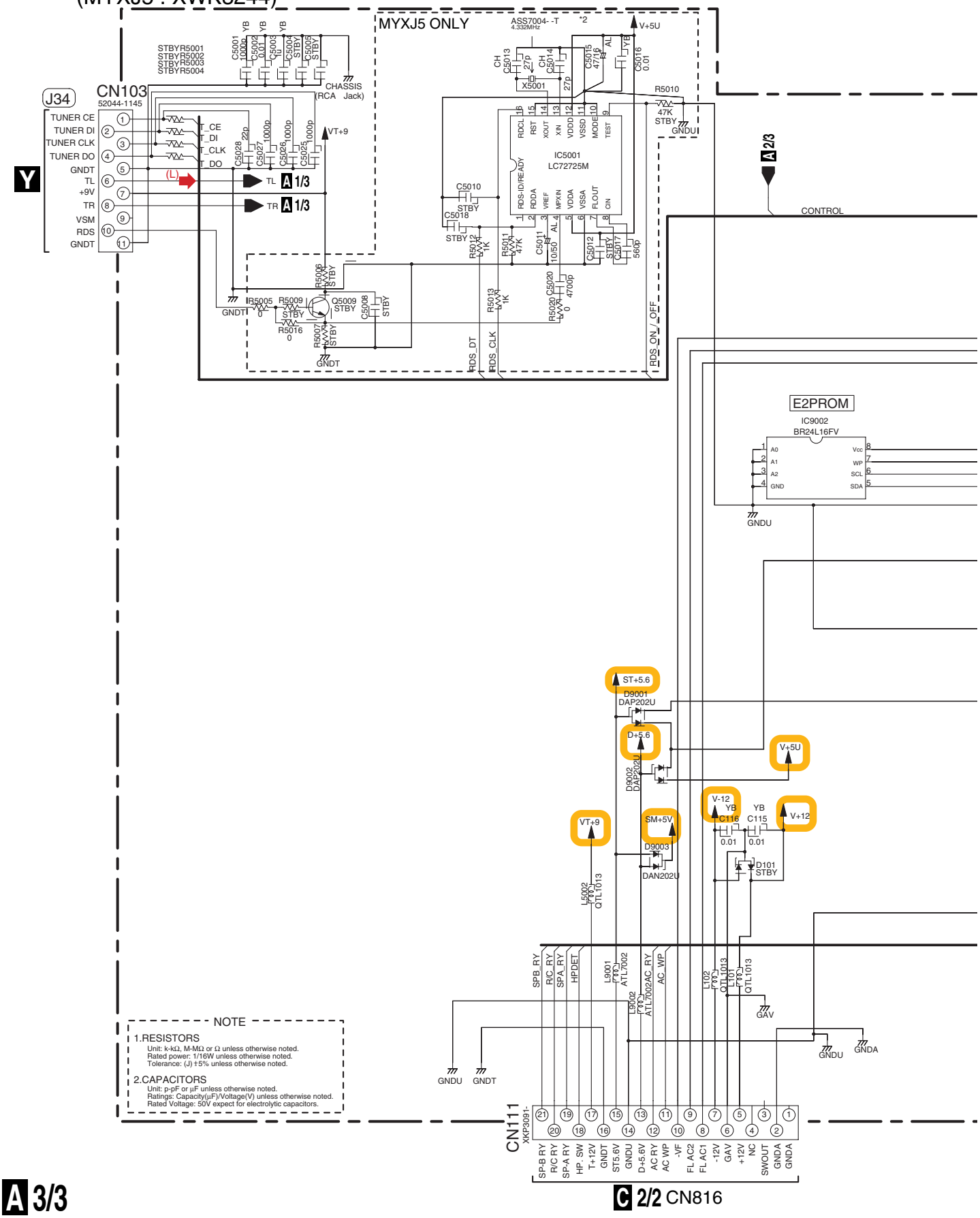
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JA:CEJA



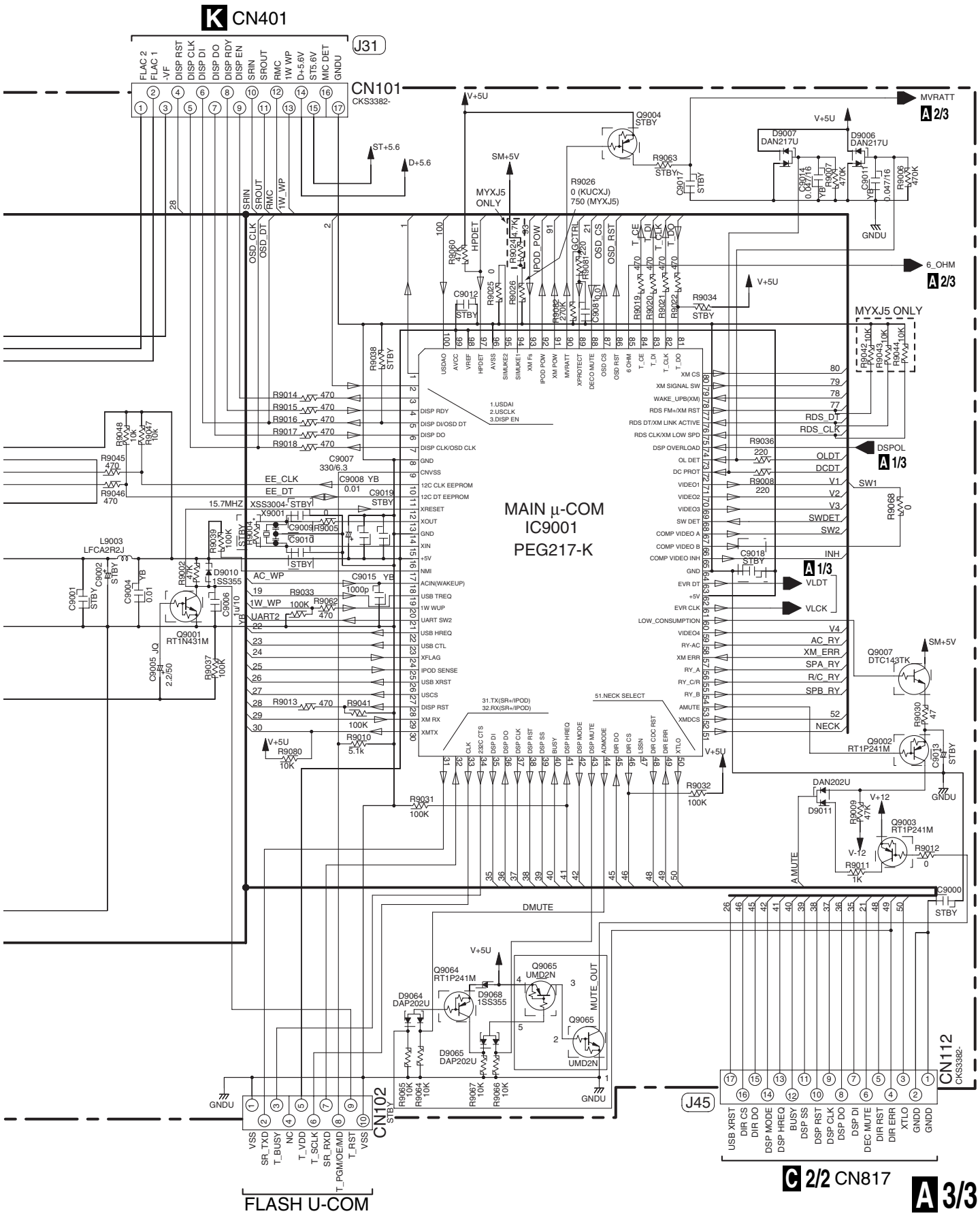
A 2/3

3.5 MAIN ASSY (3/3)

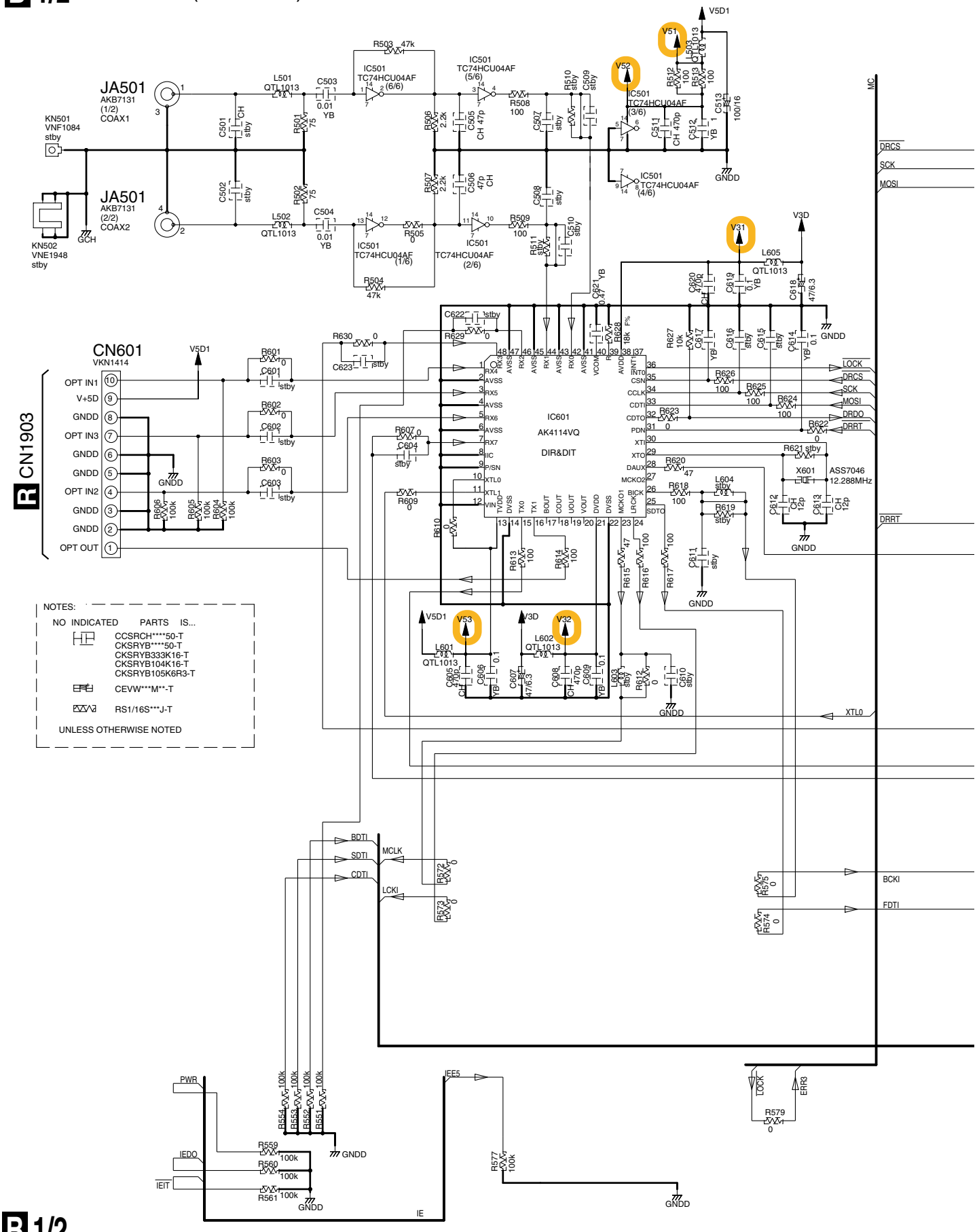
A 3/3 MAIN ASSY
(KUCXJ : XWK3227)
(MYXJ5 : XWK3244)



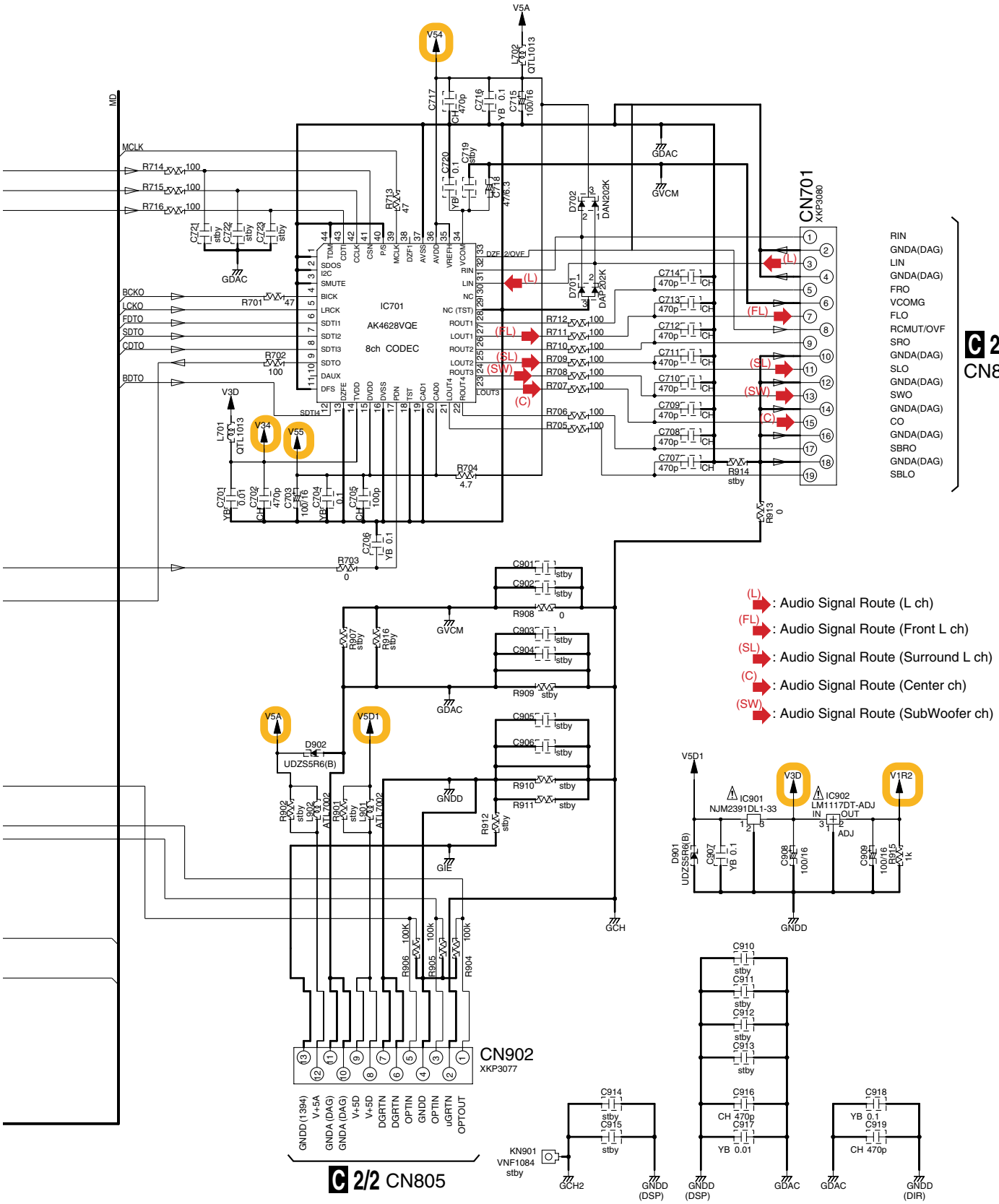
(L) : Audio Signal Route (L ch)



B 1/2 DSP ASSY (AWX8573)

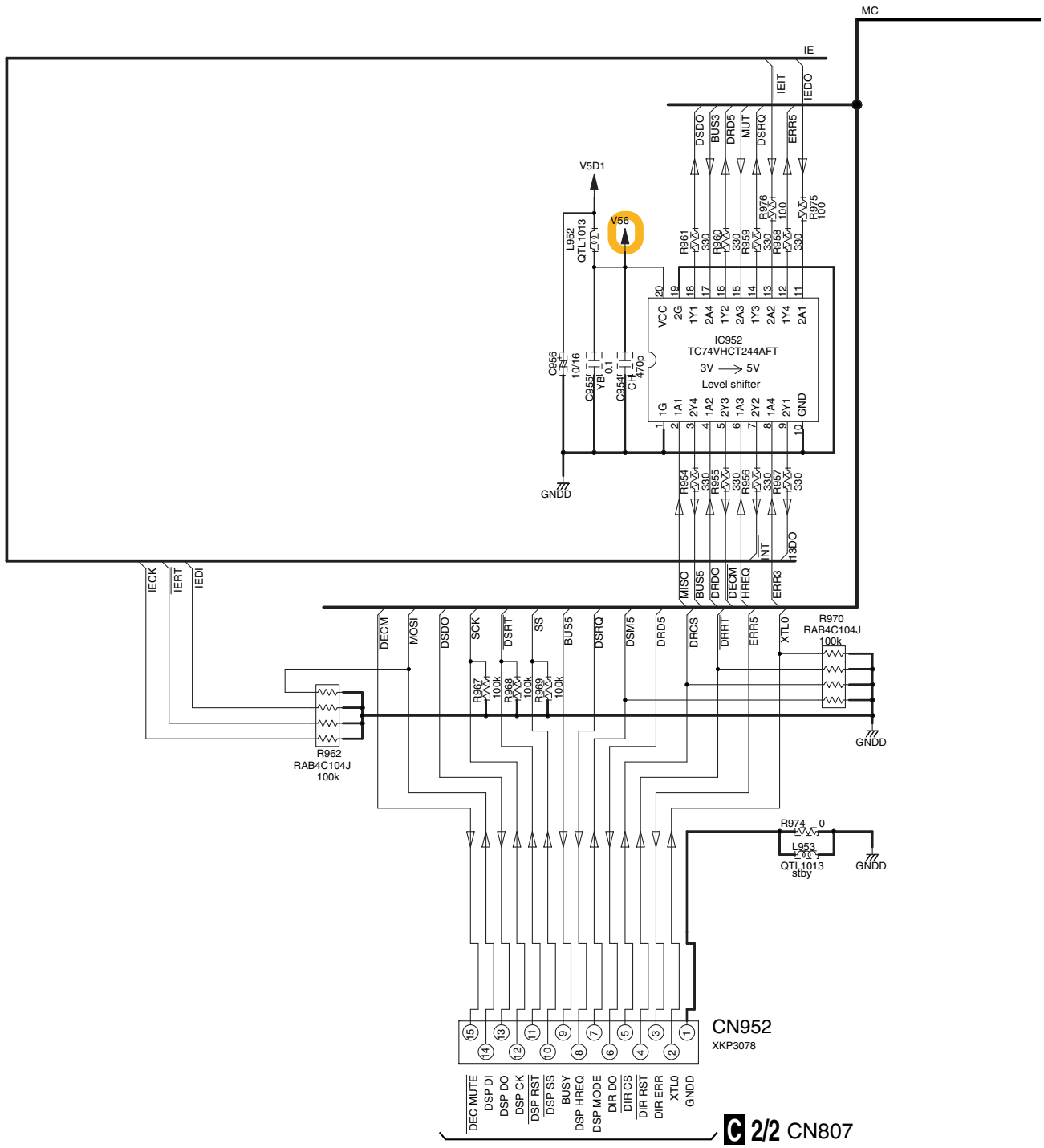


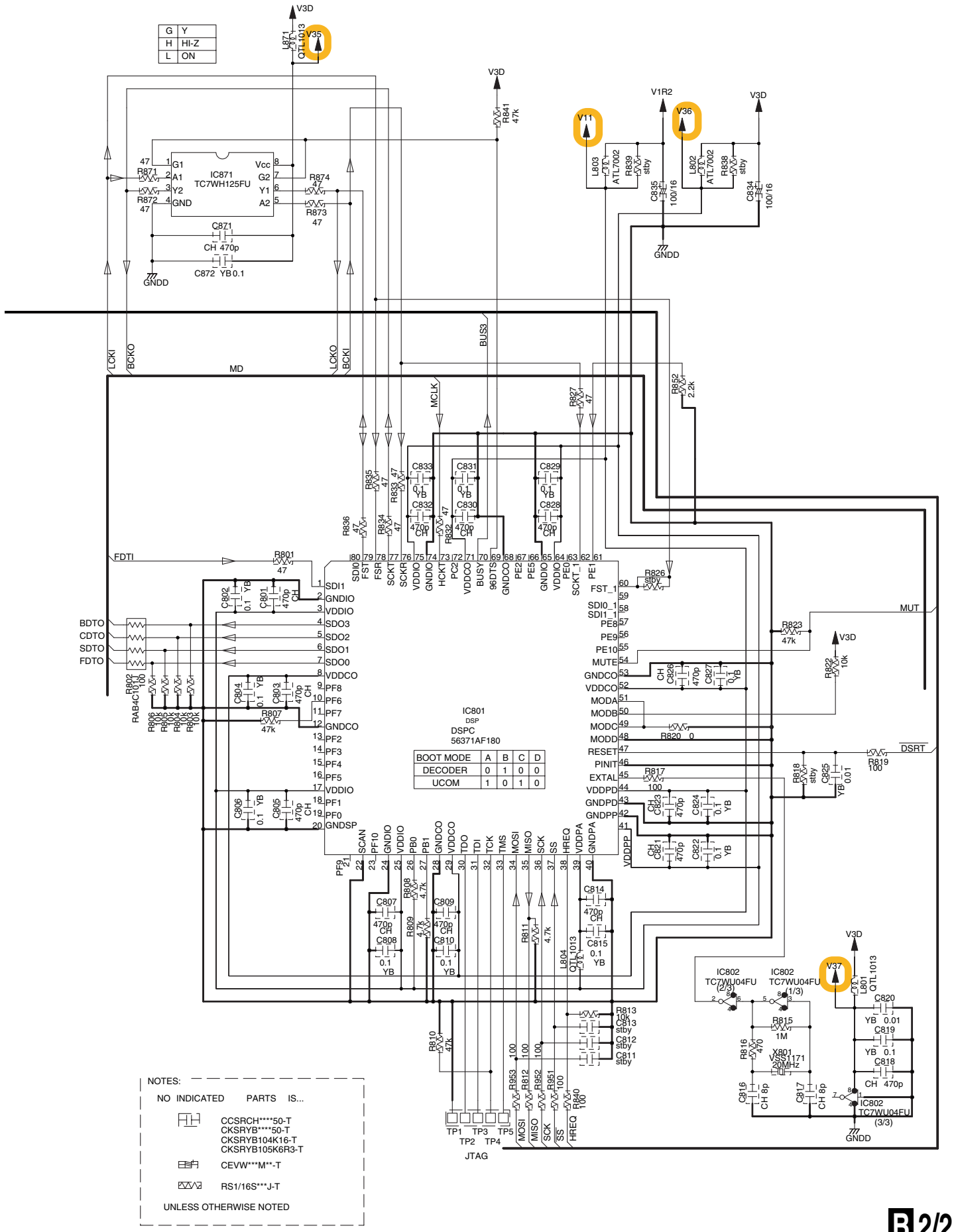
B 1/2


IC701
AK4628VQE
8ch CODEC
CN701
XKP3080
CN902
XKP3077
CN805
CN806
IC901
NJM2391DL1-33
IC902
LM1117DT-ADJ
(L): Audio Signal Route (L ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SW): Audio Signal Route (SubWoofer ch)

3.7 DSP ASSY (2/2)

B 2/2 DSP ASSY (AWX8573)

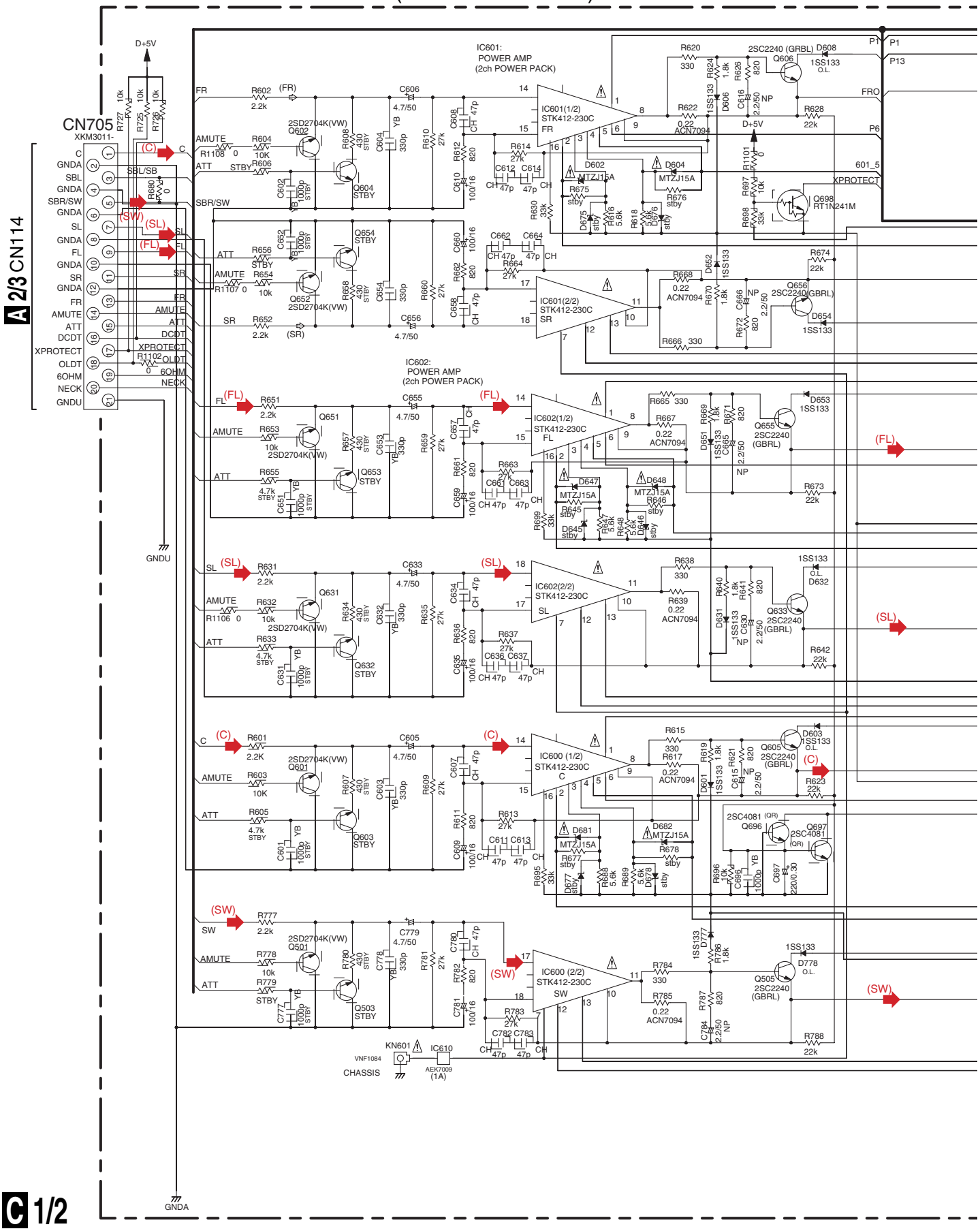



G Y
H HI-Z
L ON
V3D
V35
V36
V37
V11
V1R2
IC871
TC7WH125FU
IC801
DSP
DSPC
56371AF180
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
IC802
TC7WU04FU
X801
VSS1171
20MHz
JTAG
GNDD
MD
MUT
DSRT
FDTI
BDTO
CDTO
SDTO
FDTO
NOTES:
NO INDICATED PARTS IS...
CCSRCH****50-T
CKSRYB****50-T
CKSRYB104K16-T
CKSRYB105K6R3-T
CEVW***M**-T
RS1/16S***J-T
UNLESS OTHERWISE NOTED

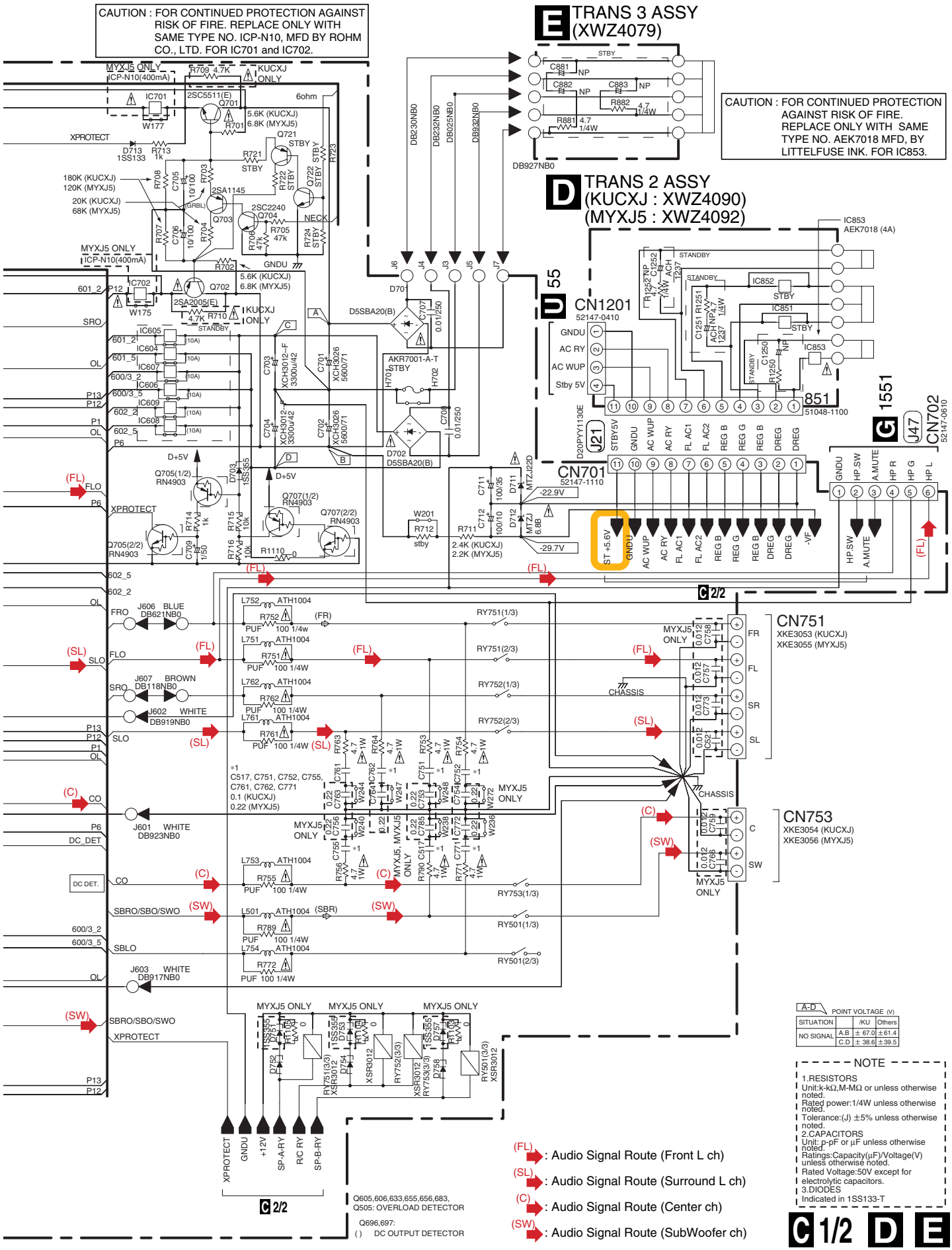
B 2/2

3.8 POWER PACK (1/2), TRANS 2 and TRANS 3 ASSYS

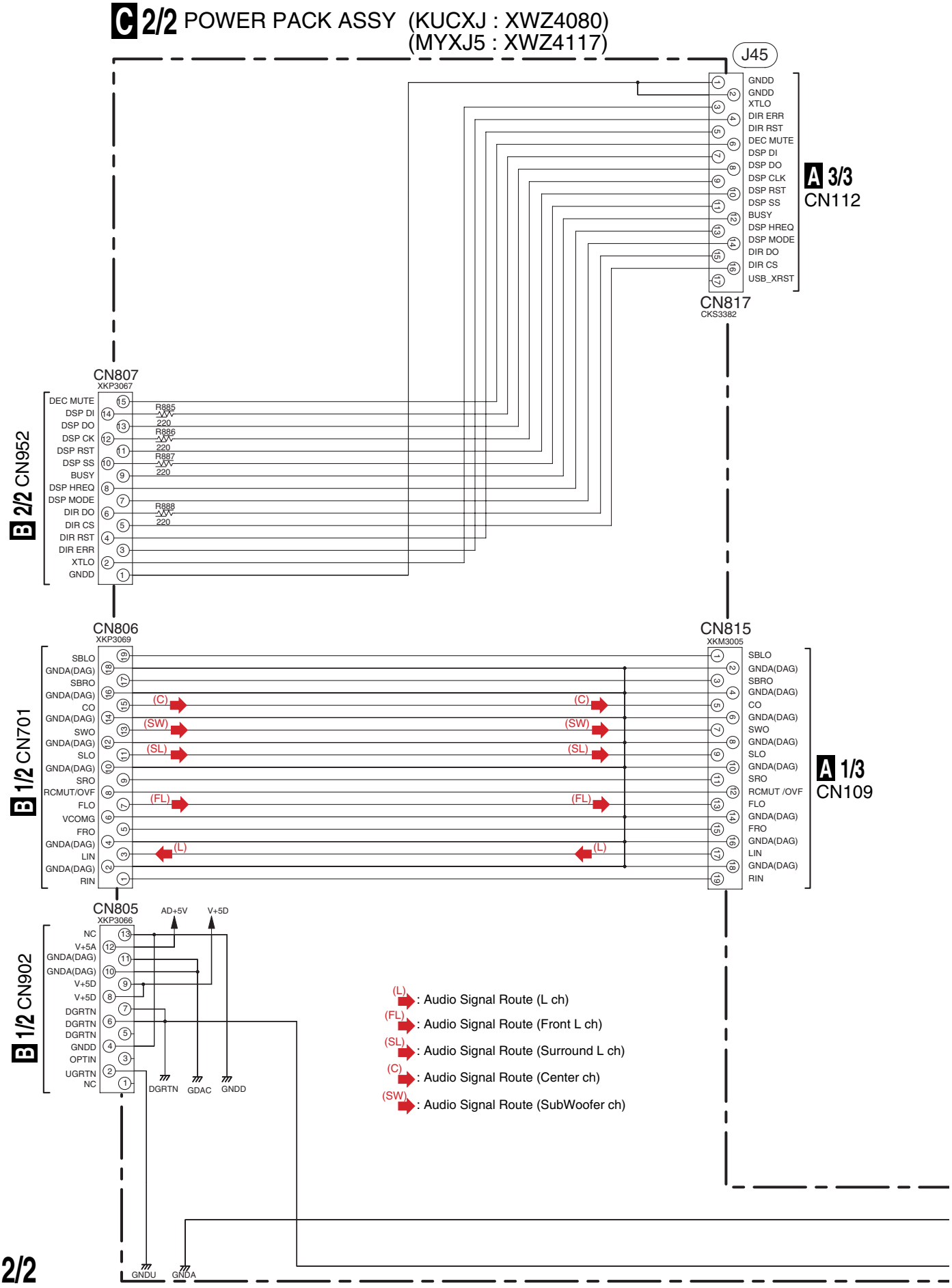
C 1/2 POWER PACK ASSY (KUCXJ : XWZ4080) (MYXJ5 : XWZ4117)

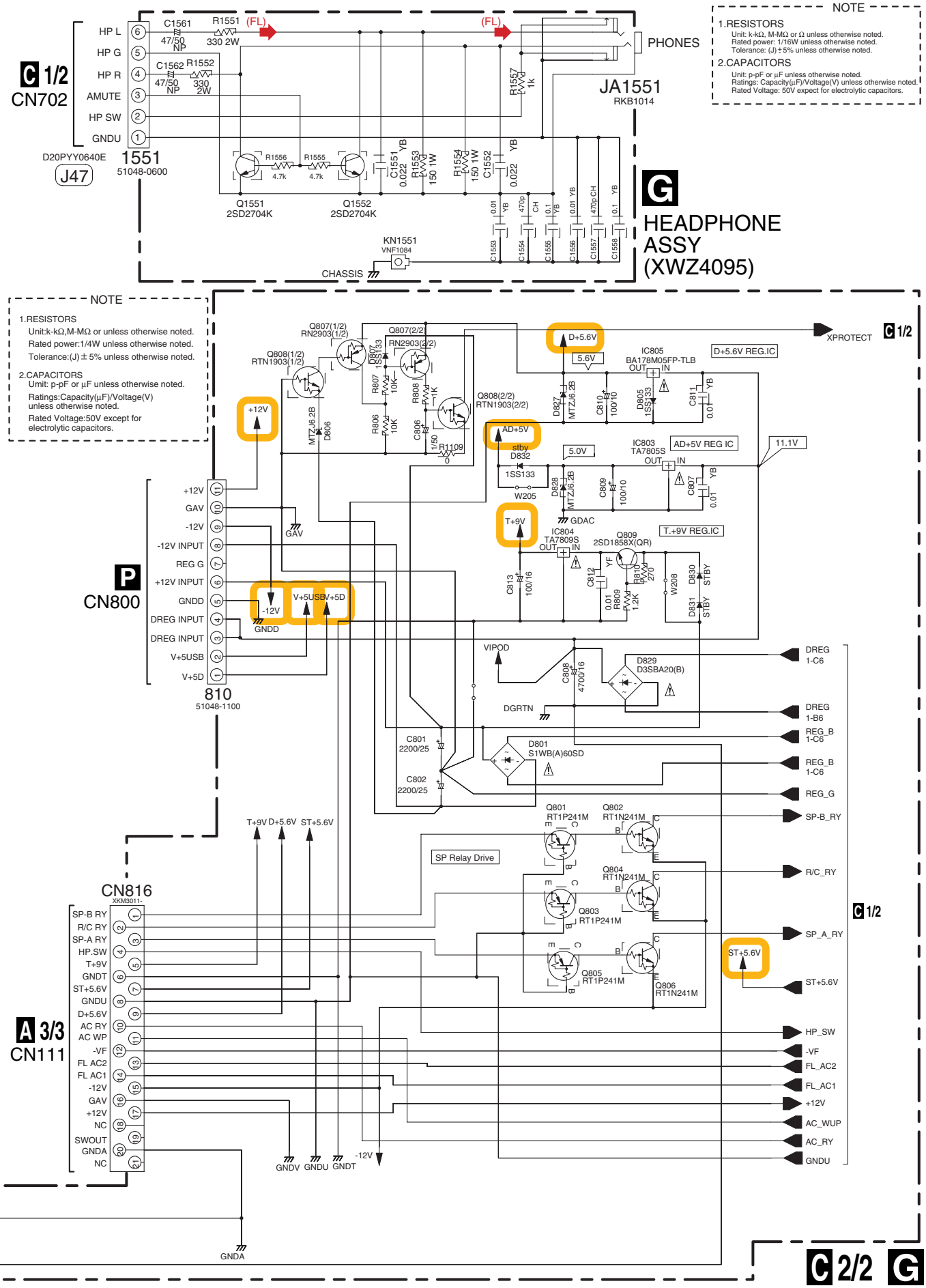


C 1/2

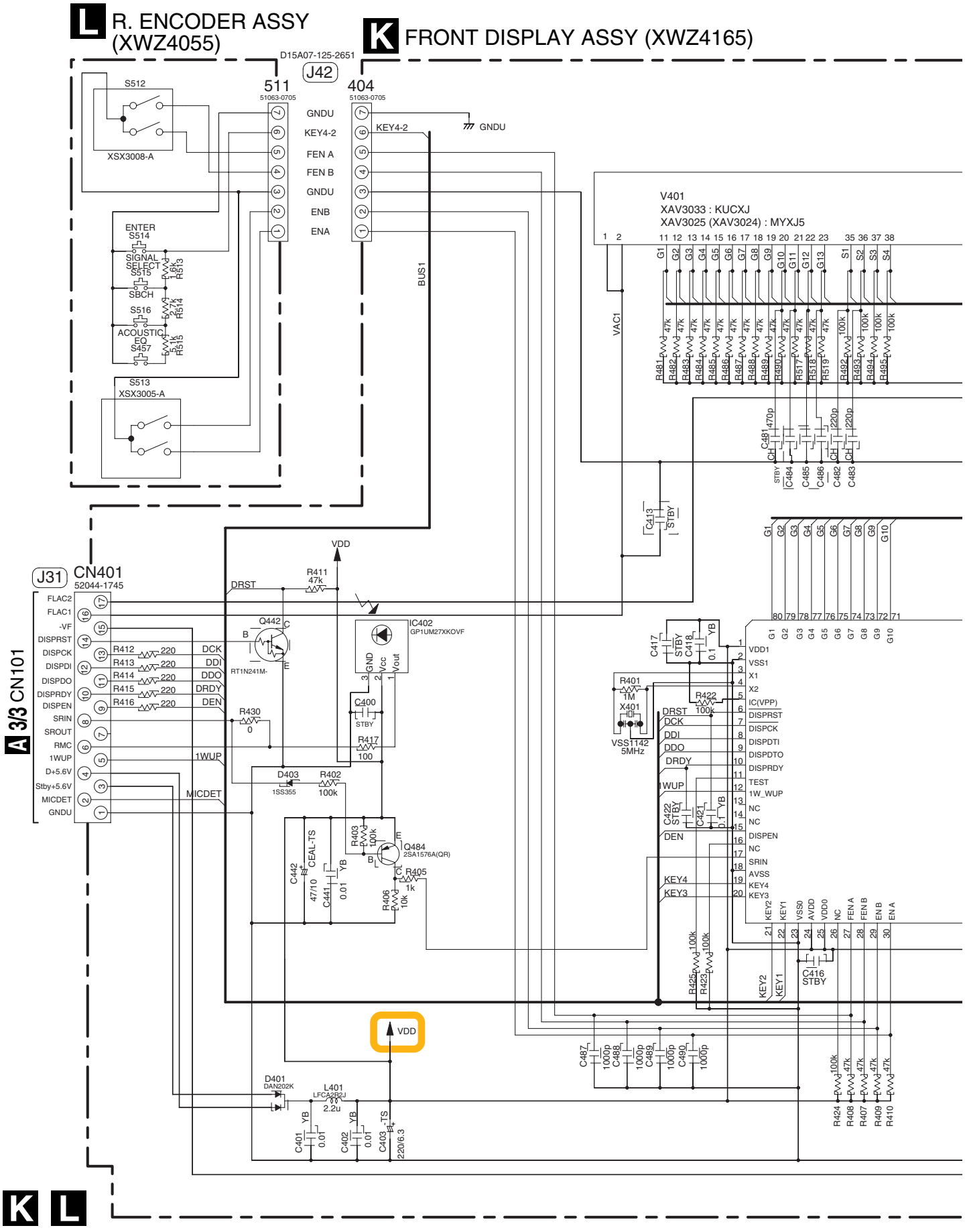

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC701 and IC702.
E TRANS 3 ASSY (XWZ4079)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7018 MFD, BY LITTELFUSE INK. FOR IC853.
D TRANS 2 ASSY (KUCXJ : XWZ4090) (MYXJ5 : XWZ4092)
CN1201 52147-0410
CN701 52147-1110
CN751 XKE3053 (KUCXJ) XKE3055 (MYXJ5)
CN753 XKE3054 (KUCXJ) XKE3056 (MYXJ5)
CN702 52147-0610
IC853 AEK7018 (4A)
MYXJ5 ONLY
KUCXJ ONLY
XPROTECT
SRO
OL
FLO
SLO
FRO
CO
SBRO/SBO/SWO
SBLO
DC_DET
DC DET.
GNDU
+12V
SP-A-RY
R/C RY
SP-B-RY
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SW) : Audio Signal Route (SubWoofer ch)
Q605,606,633,655,656,683, Q505: OVERLOAD DETECTOR
Q696,697: ( ) DC OUTPUT DETECTOR
A-D POINT VOLTAGE (V)
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings:Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS133-T
C 1/2
C 2/2
D
E

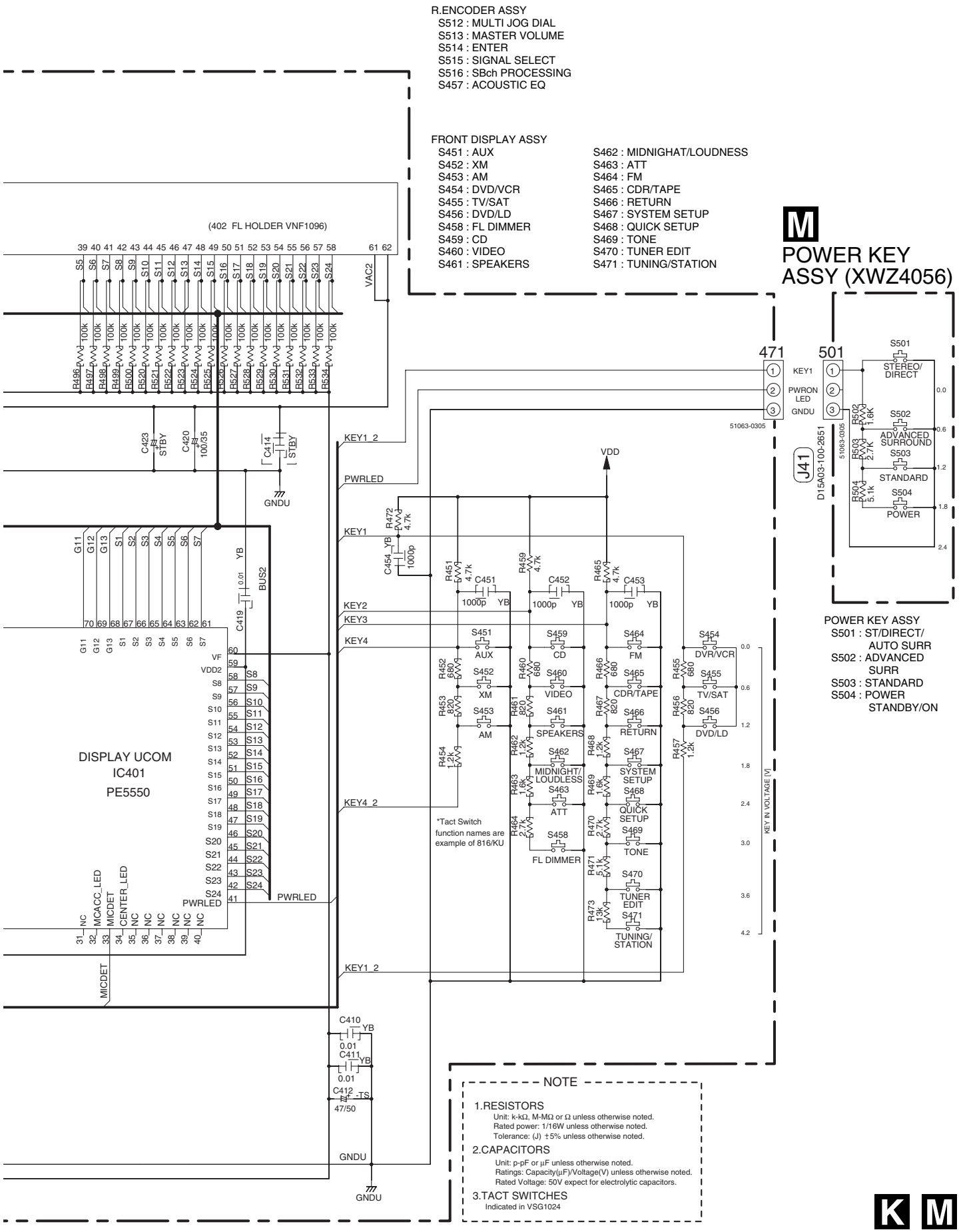
3.9 POWER PACK (2/2) and HEADPHONE ASSYS



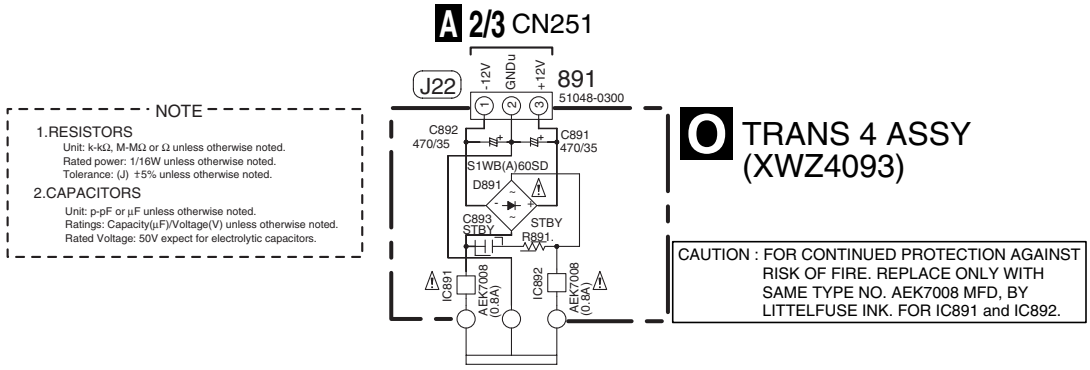

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
C 1/2
CN702
HP L
HP G
HP R
AMUTE
HP SW
GNDU
D20PYY0640E
J47
1551
51048-0600
PHONES
JA1551
RKB1014
G
HEADPHONE ASSY (XWZ4095)
KN1551
VNF1084
CHASSIS
Q1551 2SD2704K
Q1552 2SD2704K
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J) ± 5% unless otherwise noted.
2.CAPACITORS
Umit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
XPROTECT
C 1/2
D+5.6V REG.IC
AD+5V REG IC
T.+9V REG.IC
P
CN800
+12V
GAV
-12V
-12V INPUT
REG G
+12V INPUT
GNDD
DREG INPUT
DREG INPUT
V+5USB
V+5D
810
51048-1100
VIPOD
DGRTN
DREG 1-C6
DREG 1-B6
REG_B 1-C6
REG_B 1-C6
REG_G
SP-B_RY
R/C_RY
SP_A_RY
ST+5.6V
HP_SW
-VF
FL_AC2
FL_AC1
+12V
AC_WUP
AC_RY
GNDU
SP Relay Drive
A 3/3
CN111
CN816
XKM3011-
SP-B RY
R/C RY
SP-A RY
HP.SW
T+9V
GNDT
ST+5.6V
GNDU
D+5.6V
AC RY
AC WP
-VF
FL AC2
FL AC1
-12V
GAV
+12V
NC
SWOUT
GNDA
NC
GNDV
GNDU
GNDT
GNDA
C 2/2
G

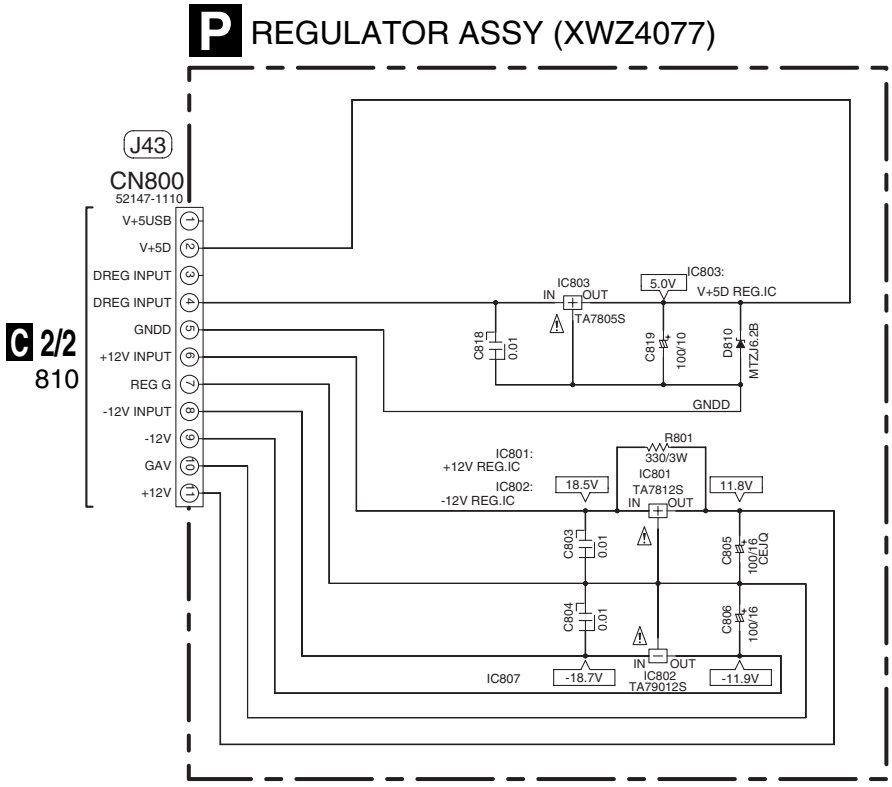
3.10 FRONT DISPLAY, R. ENCODER and POWER KEY ASSYS

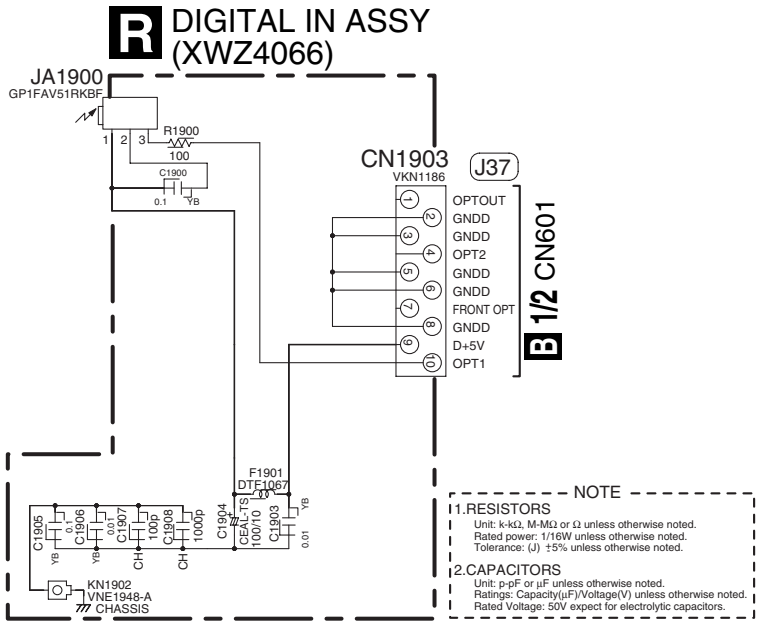



R.ENCODER ASSY
S512 : MULTI JOG DIAL
S513 : MASTER VOLUME
S514 : ENTER
S515 : SIGNAL SELECT
S516 : SBch PROCESSING
S457 : ACOUSTIC EQ
FRONT DISPLAY ASSY
S451 : AUX
S452 : XM
S453 : AM
S454 : DVD/VCR
S455 : TV/SAT
S456 : DVD/LD
S458 : FL DIMMER
S459 : CD
S460 : VIDEO
S461 : SPEAKERS
S462 : MIDNIGHAT/LOUDNESS
S463 : ATT
S464 : FM
S465 : CDR/TAPE
S466 : RETURN
S467 : SYSTEM SETUP
S468 : QUICK SETUP
S469 : TONE
S470 : TUNER EDIT
S471 : TUNING/STATION
(402 FL HOLDER VNF1096)
POWER KEY ASSY (XWZ4056)
471
501
J41
D15A03-100-2651
51063-0305
51063-0305
S501
STEREO/ DIRECT
S502
ADVANCED SURROUND
S503
STANDARD
S504
POWER
POWER KEY ASSY
S501 : ST/DIRECT/ AUTO SURR
S502 : ADVANCED SURR
S503 : STANDARD
S504 : POWER STANDBY/ON
DISPLAY UCOM
IC401
PE5550
*Tact Switch function names are example of 816/KU
KEY IN VOLTAGE [V]
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3.TACT SWITCHES
Indicated in VSG1024

3.11 TRANS 4, REGULATOR and DIGITAL IN ASSYS





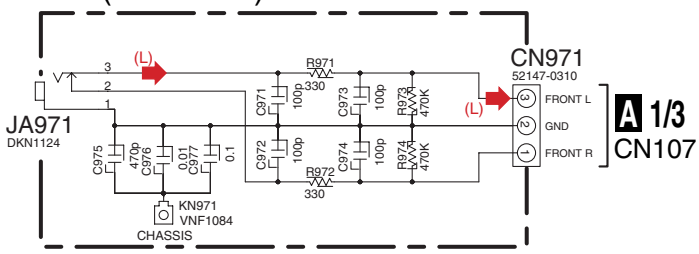


O P R

3.12 FRONT INPUT, PRIMARY and TRANS 1 ASSYS

(L): Audio Signal Route (L ch)

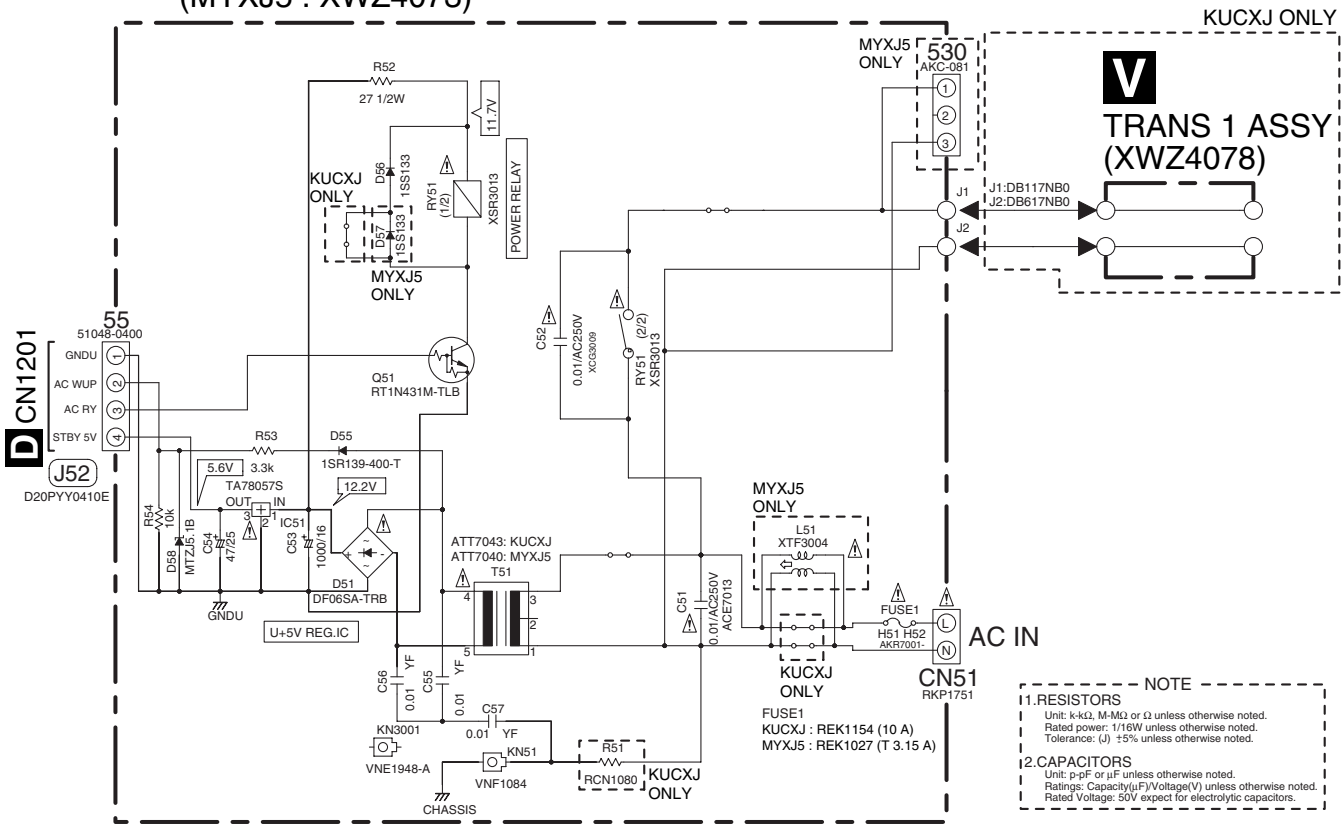
T FRONT INPUT ASSY (XWZ4124)



• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

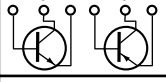
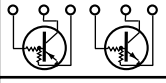
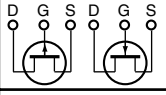
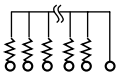
U PRIMARY ASSY (KUCXJ : XWZ4128) (MYXJ5 : XWZ4073)



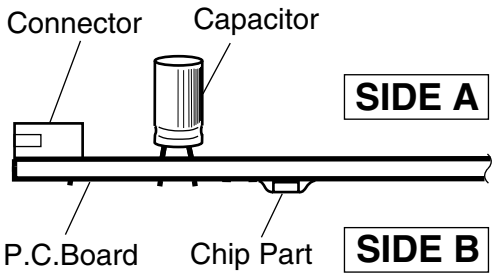
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

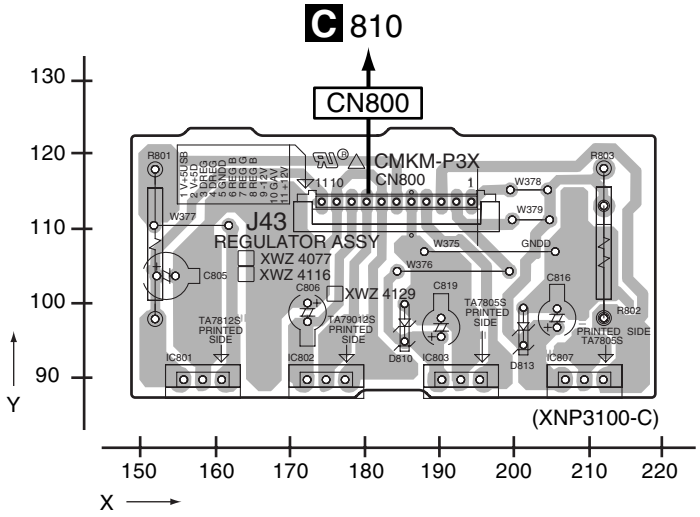
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 REGULATOR and DIGITAL IN ASSYS

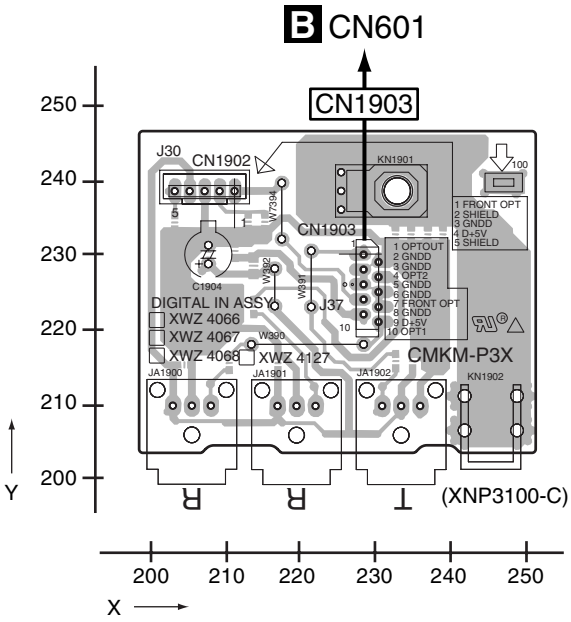
SIDE A

P REGULATOR ASSY



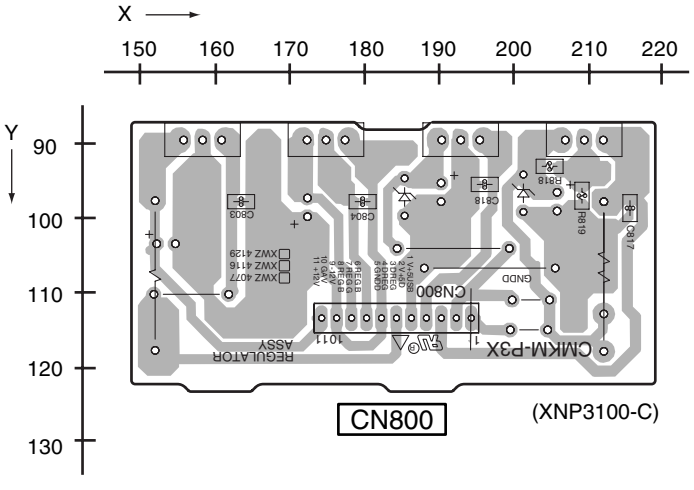
SIDE A

R DIGITAL IN ASSY



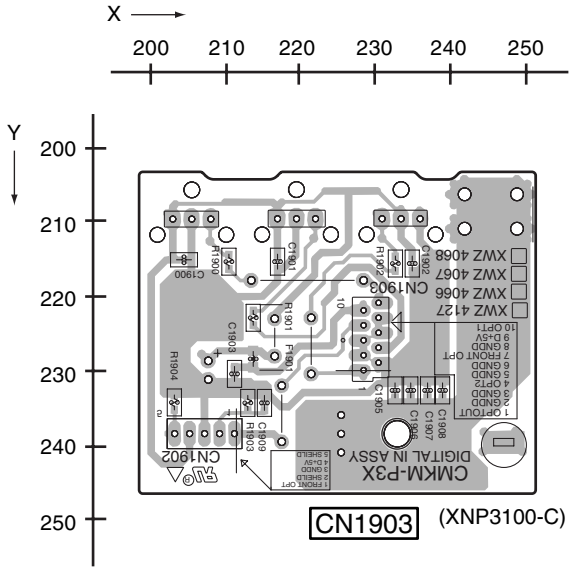
SIDE B

P REGULATOR ASSY

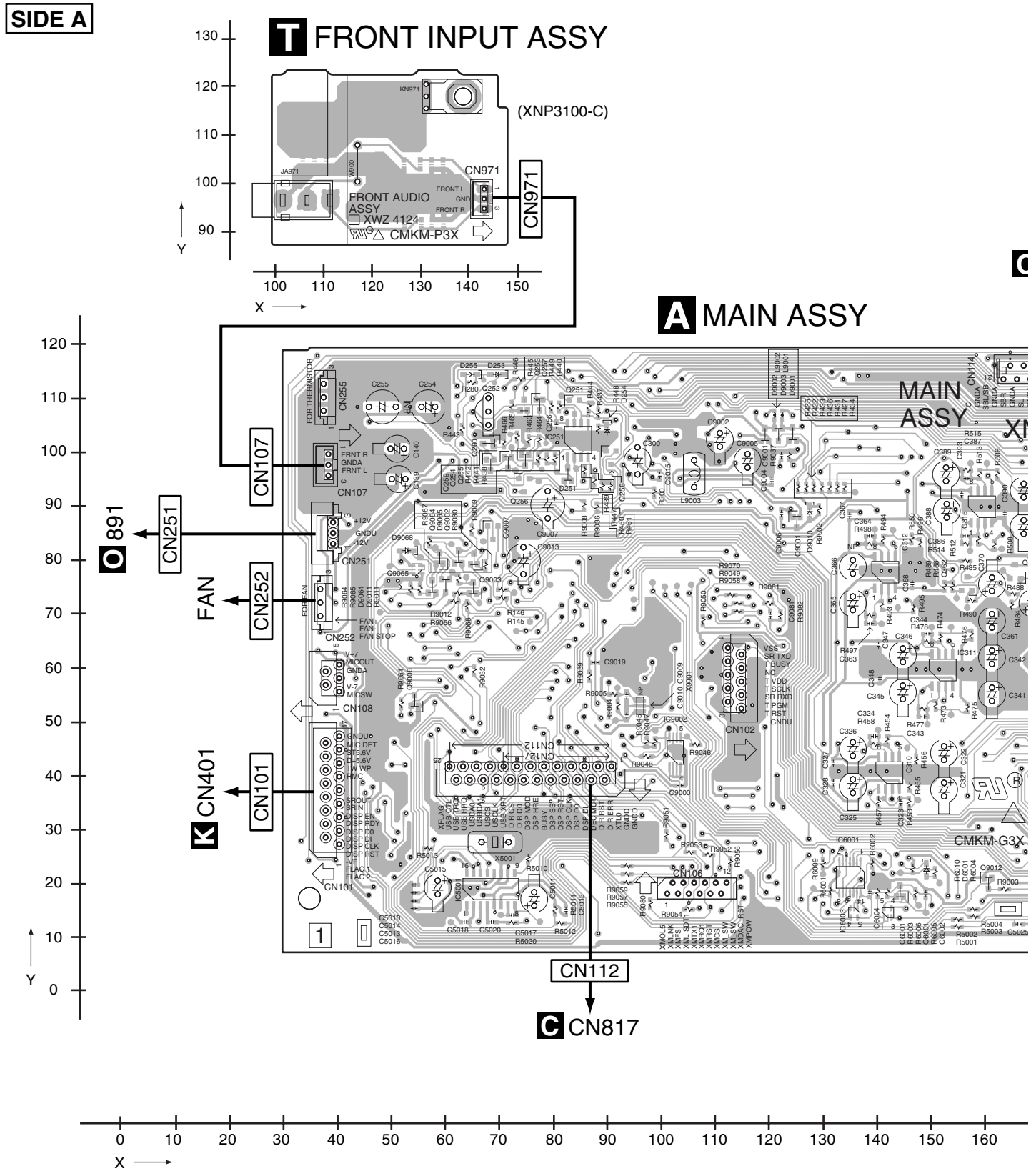


SIDE B

R DIGITAL IN ASSY



4.2 MAIN and FRONT INPUT ASSYS



SIDE A

A

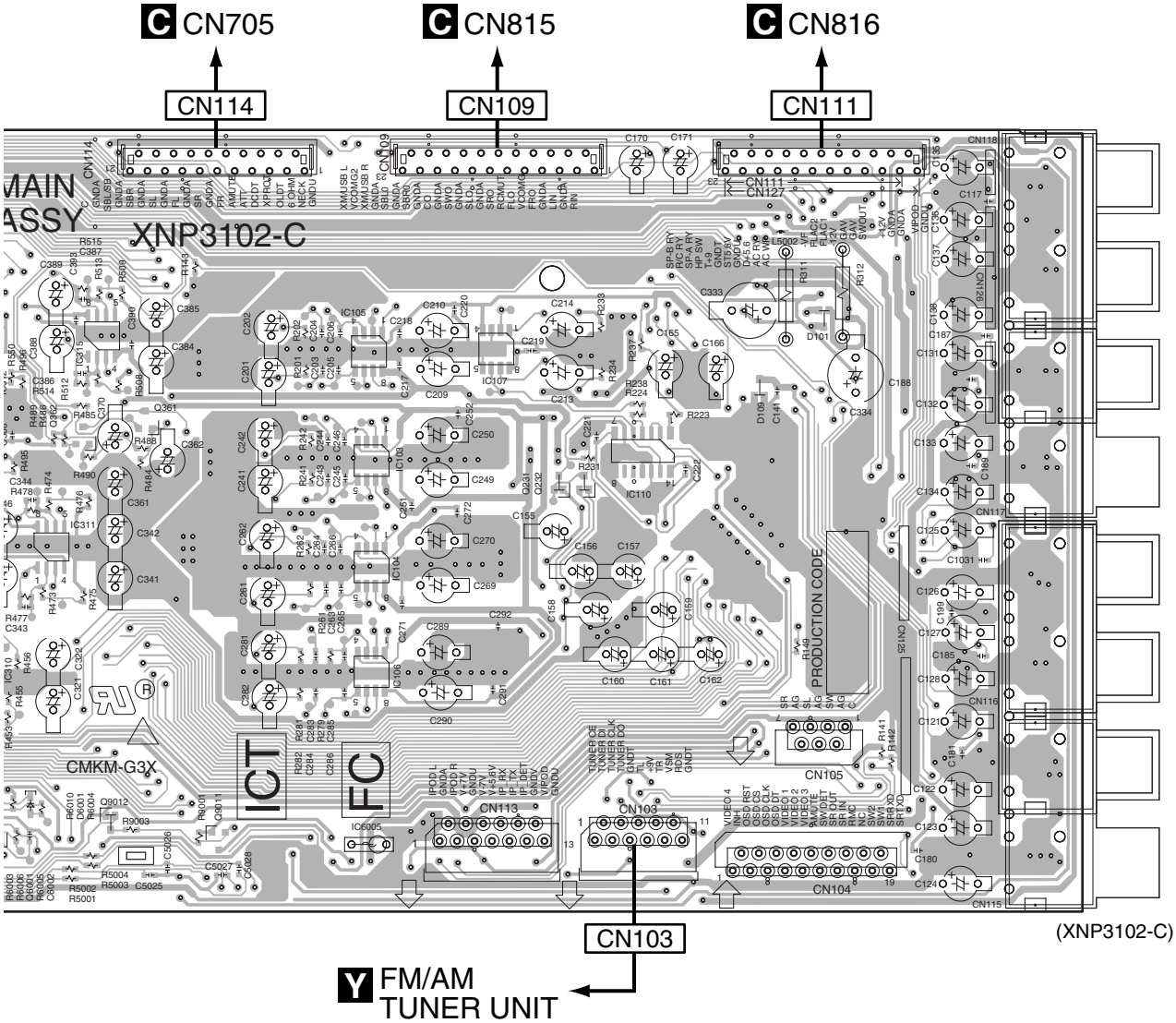
B

C

D

E

F

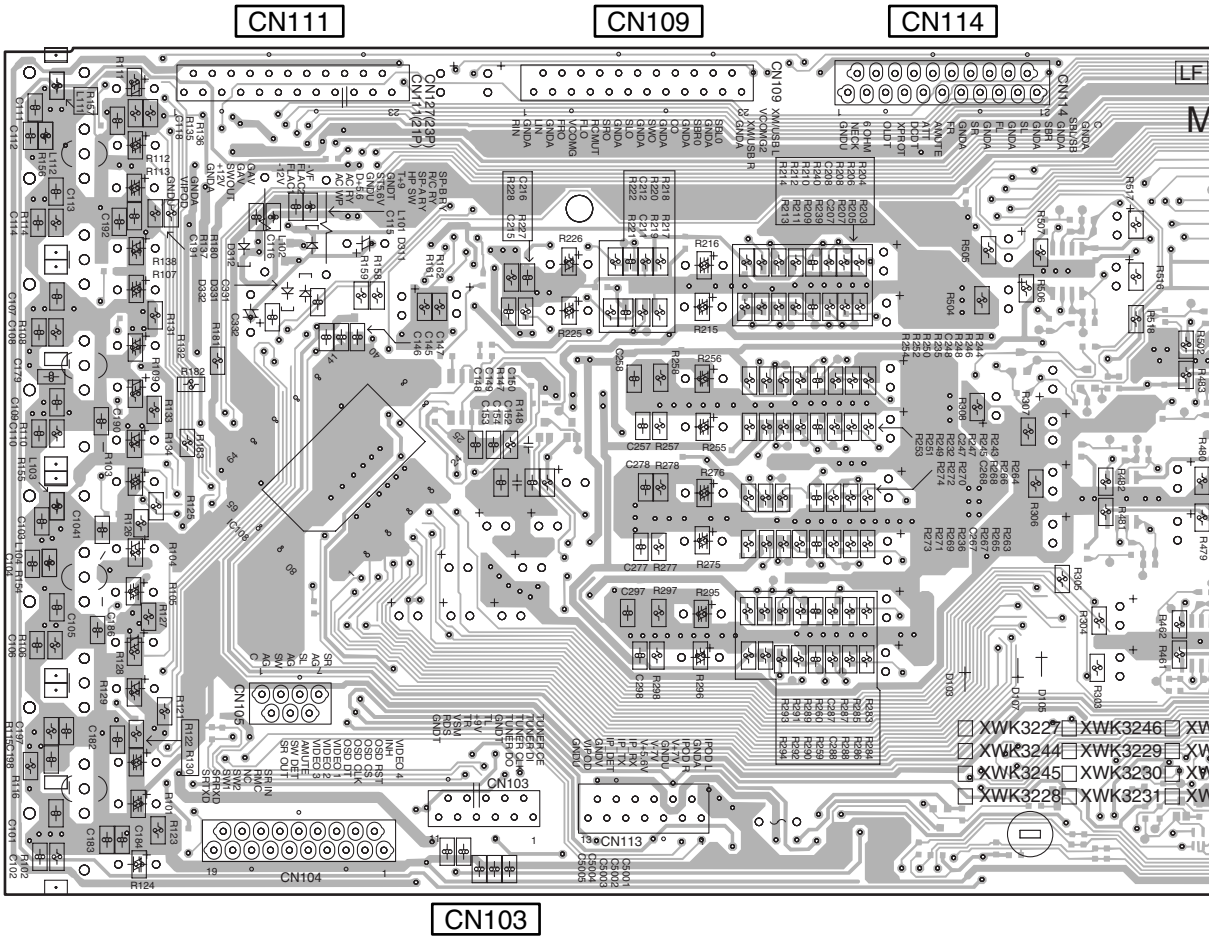


150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320

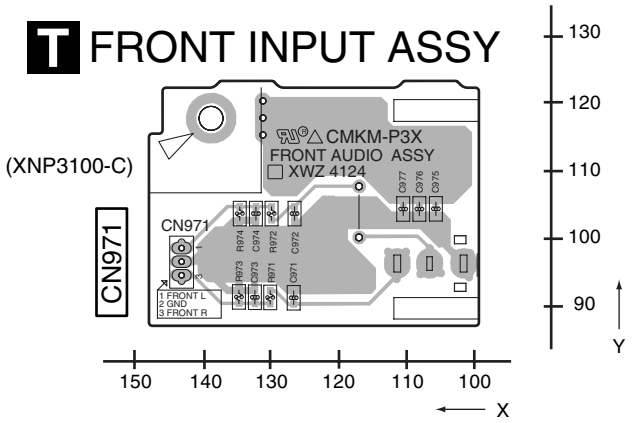
A

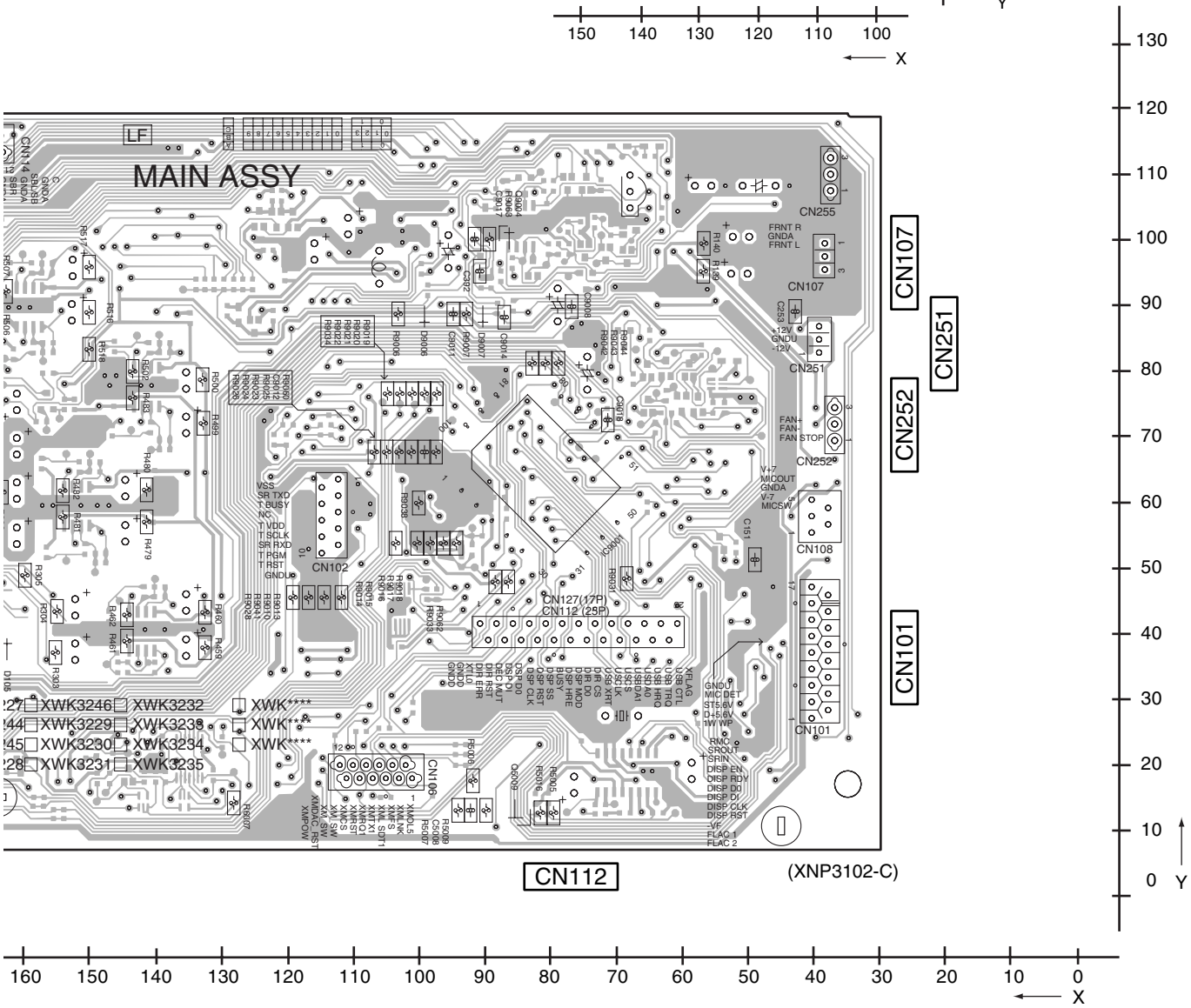
SIDE B

A MAIN ASSY



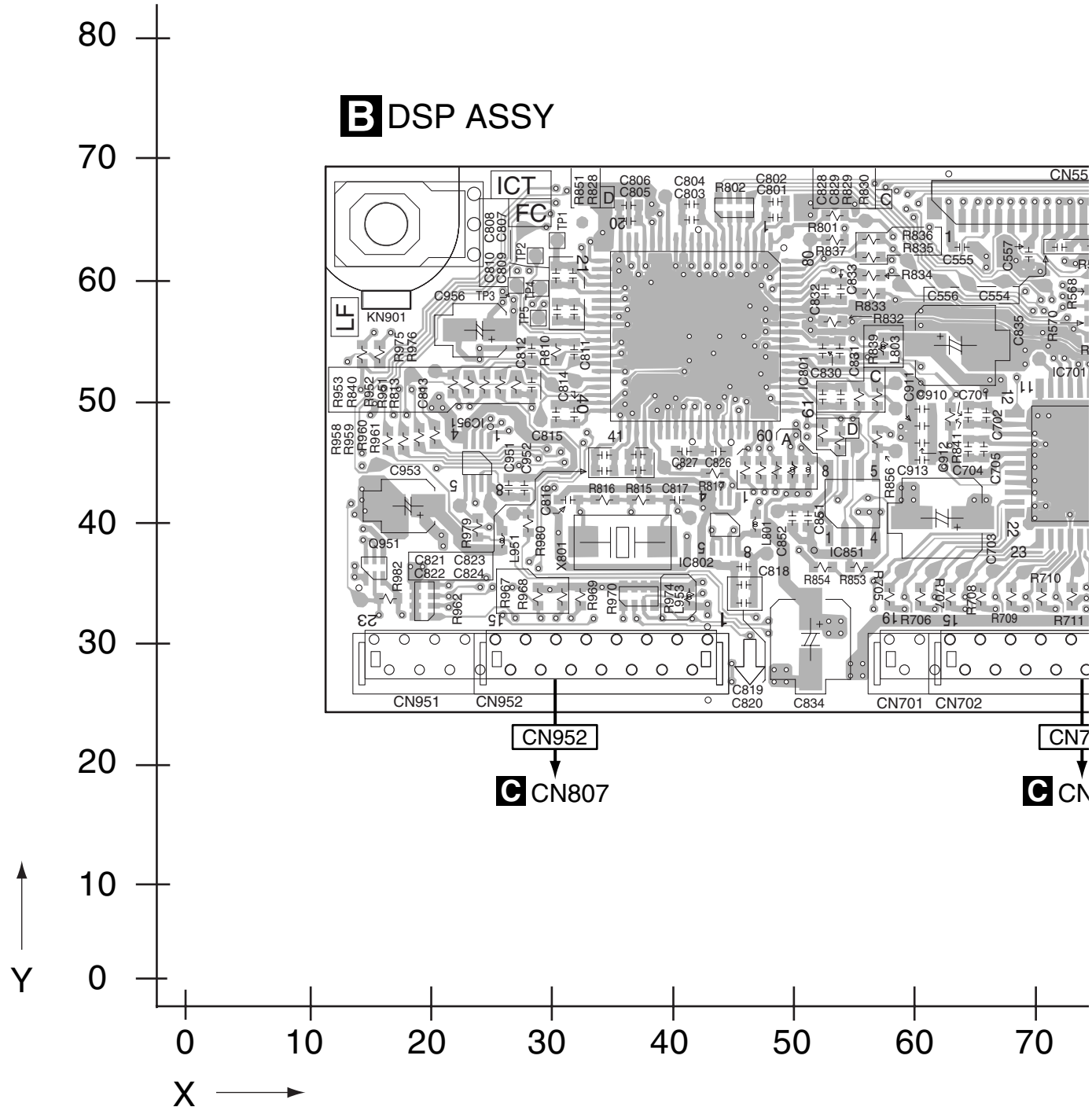
T FRONT INPUT ASSY





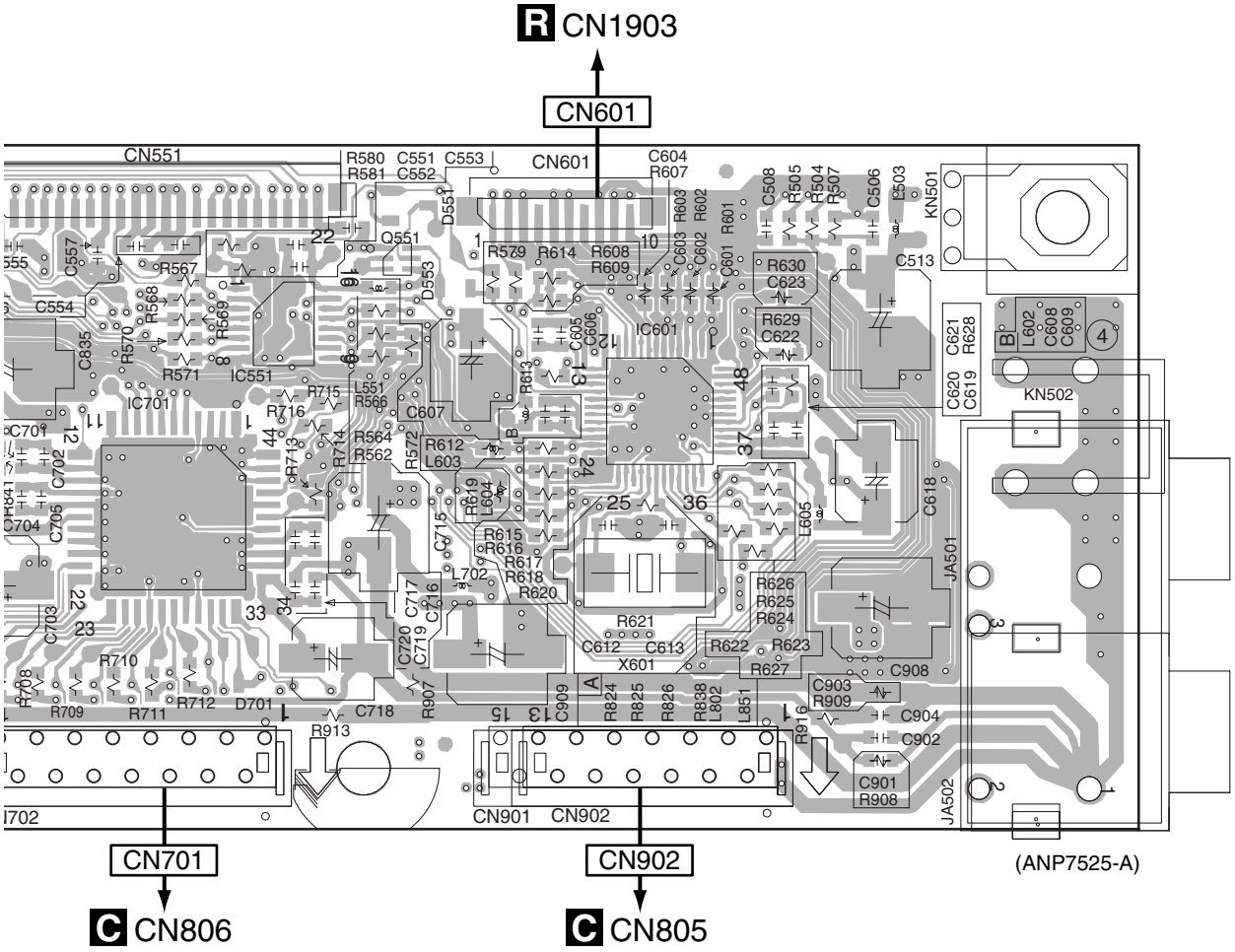
4.3 DSP ASSY

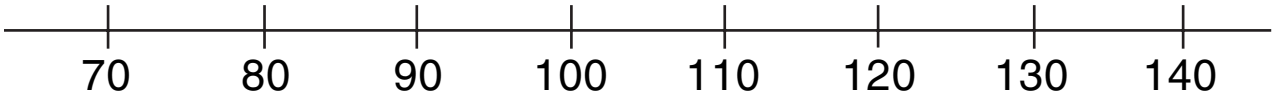
SIDE A



B

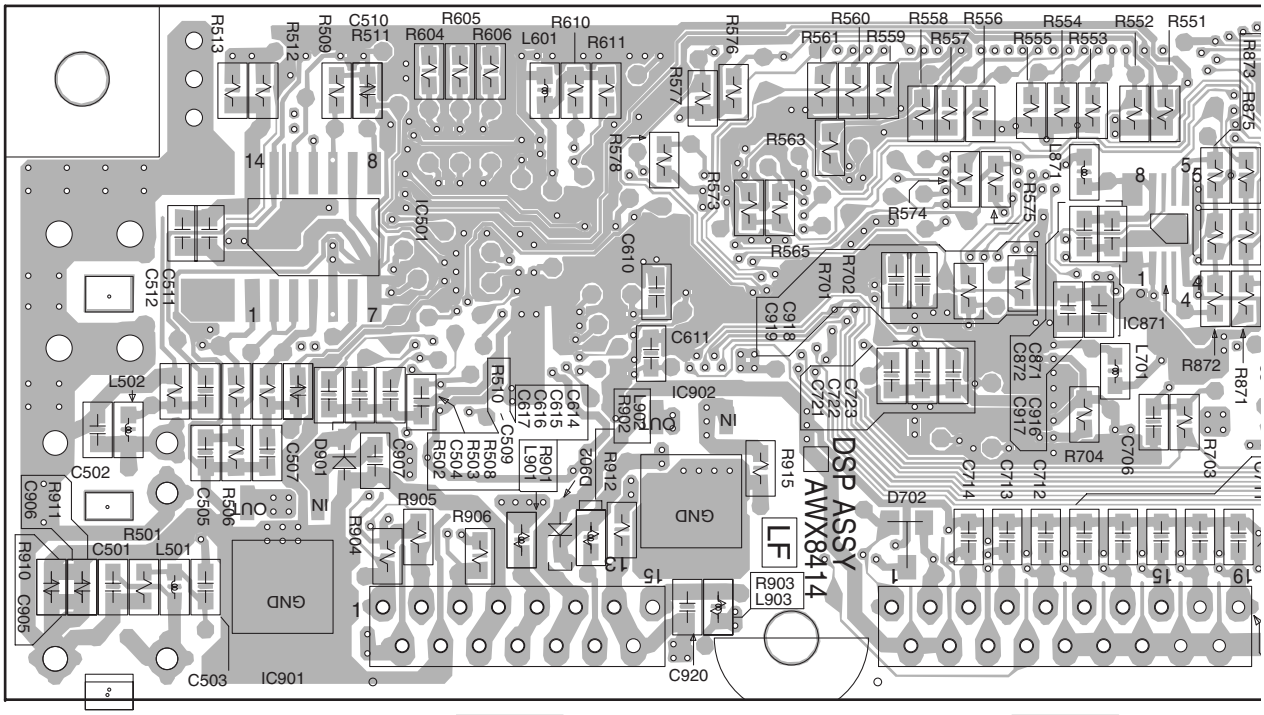
SIDE A


R CN1903
CN601
CN551
CN601
CN701
CN902
C CN806
C CN805
CN901
CN902
KN501
KN502
JA501
JA502
IC551
IC601
IC701
Q551
X601
(ANP7525-A)


70
80
90
100
110
120
130
140

SIDE B

B DSP ASSY

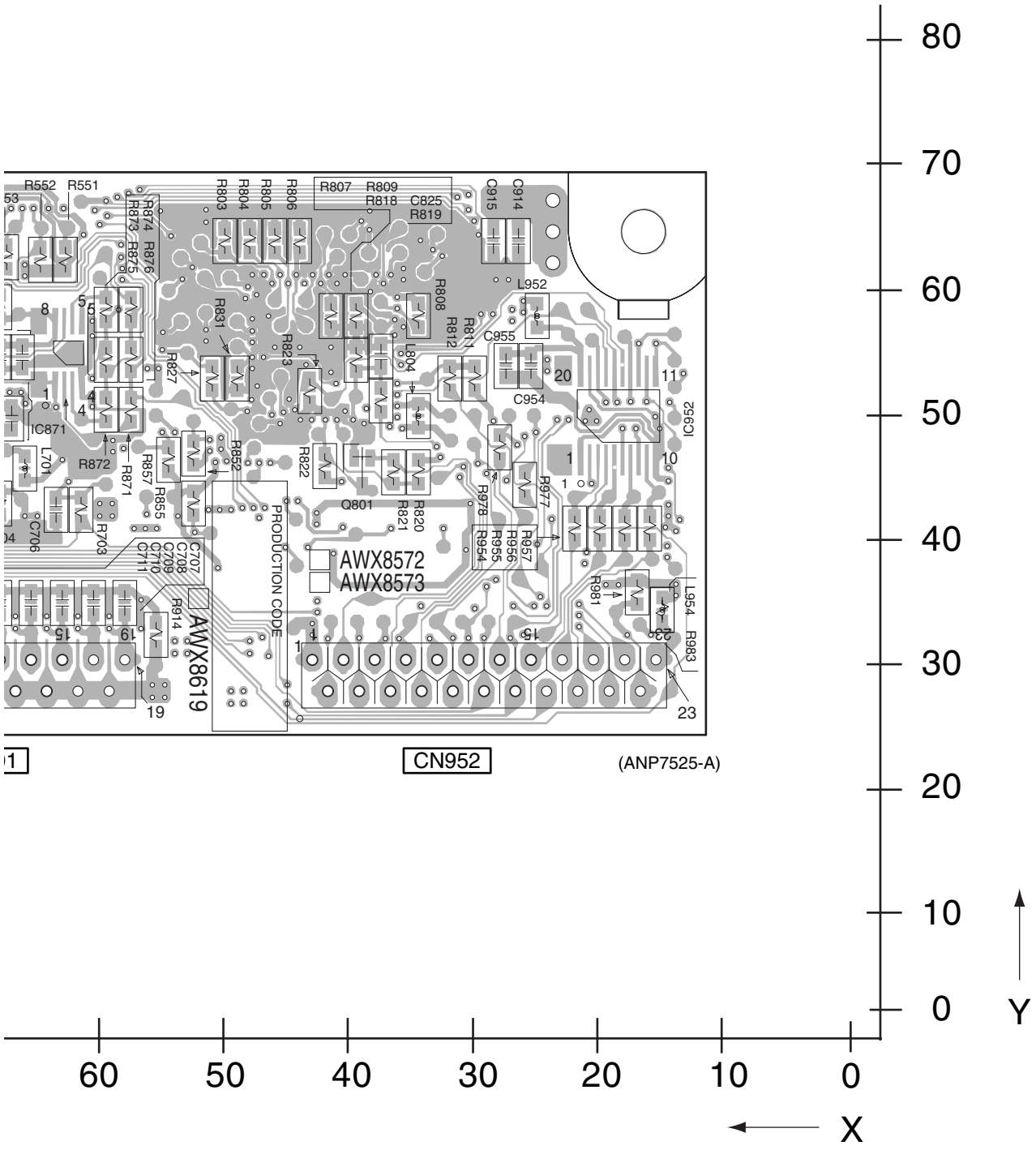


140 130 120 110 100 90 80 70 60

B

SIDE B

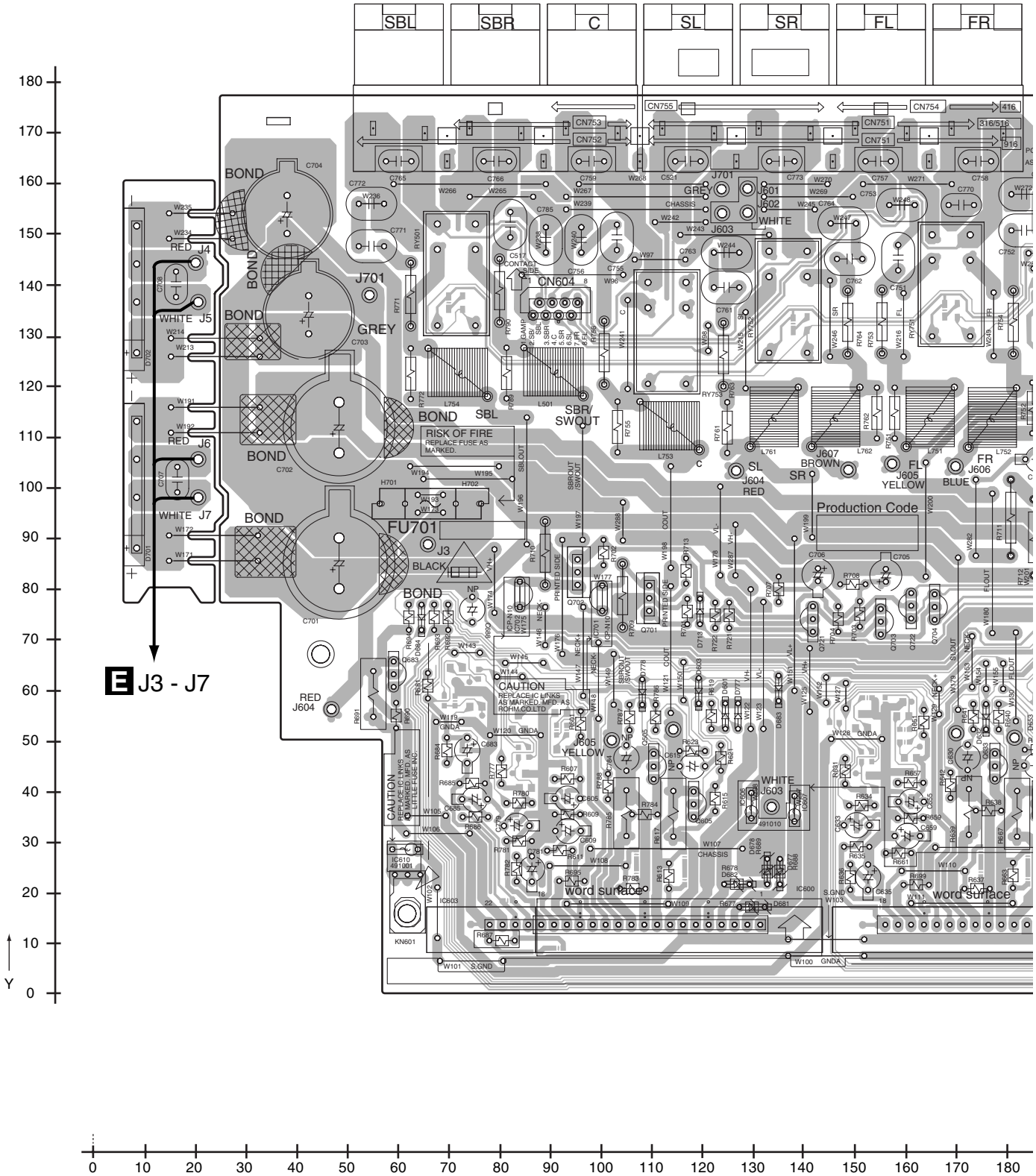
R552
R551
R803
R804
R805
R806
R807
R809
R818
C825
R819
C915
C914
R874
R873
R875
R876
R808
L952
R831
R823
R827
R811
R812
C955
L804
20
11
C954
IC871
R872
R852
R822
R857
R855
R871
Q801
R821
R820
R978
R977
10
C706
R703
C707
C708
C709
C710
C711
R914
AWX8619
PRODUCTION CODE
AWX8572
AWX8573
R954
R955
R956
R957
R981
L954
R983
15
19
23
CN952
(ANP7525-A)


80
70
60
50
40
30
20
10
0
Y
60
50
40
30
20
10
0
X

4.4 POWER PACK ASSY

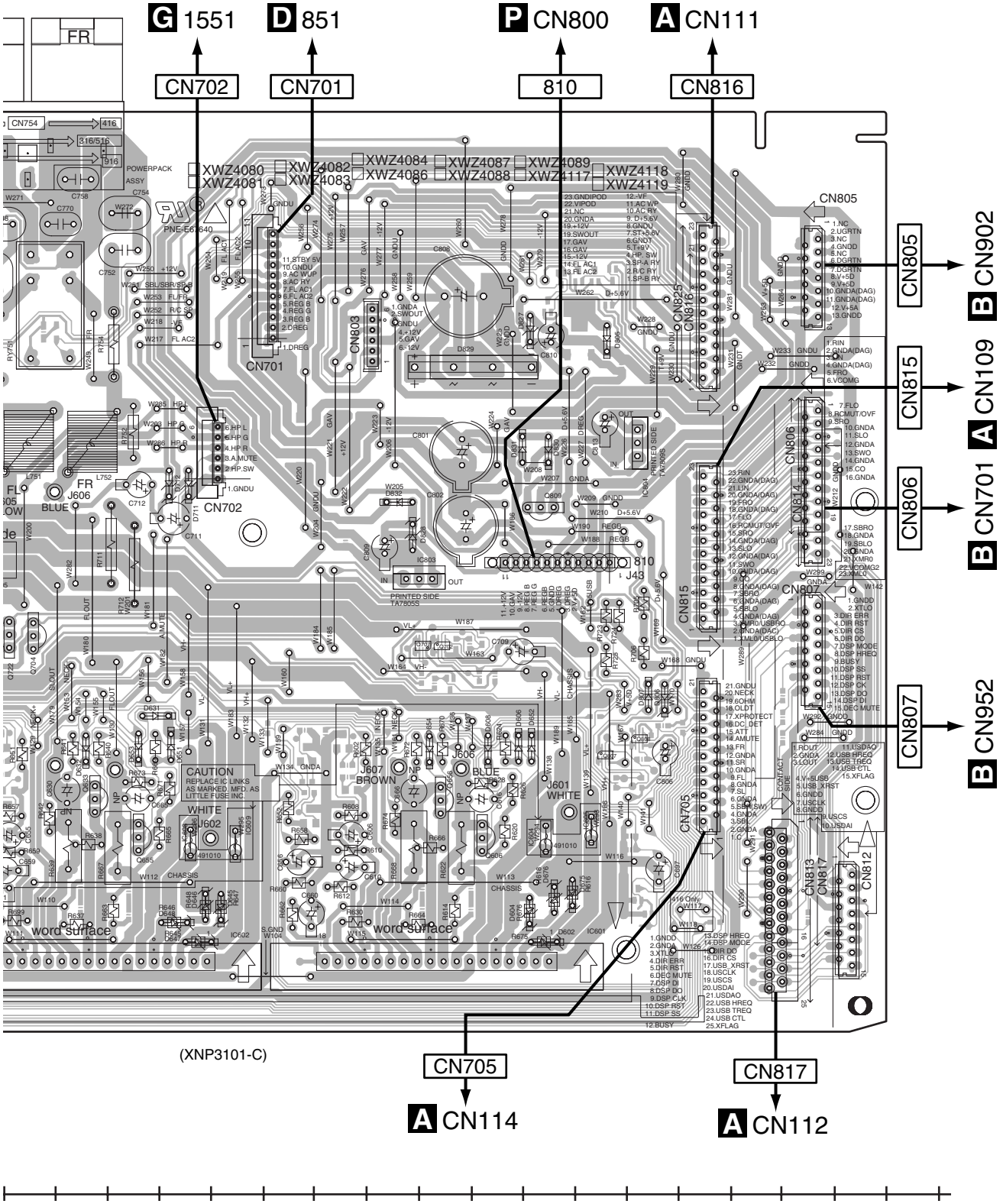
SIDE A

C POWER PACK ASSY



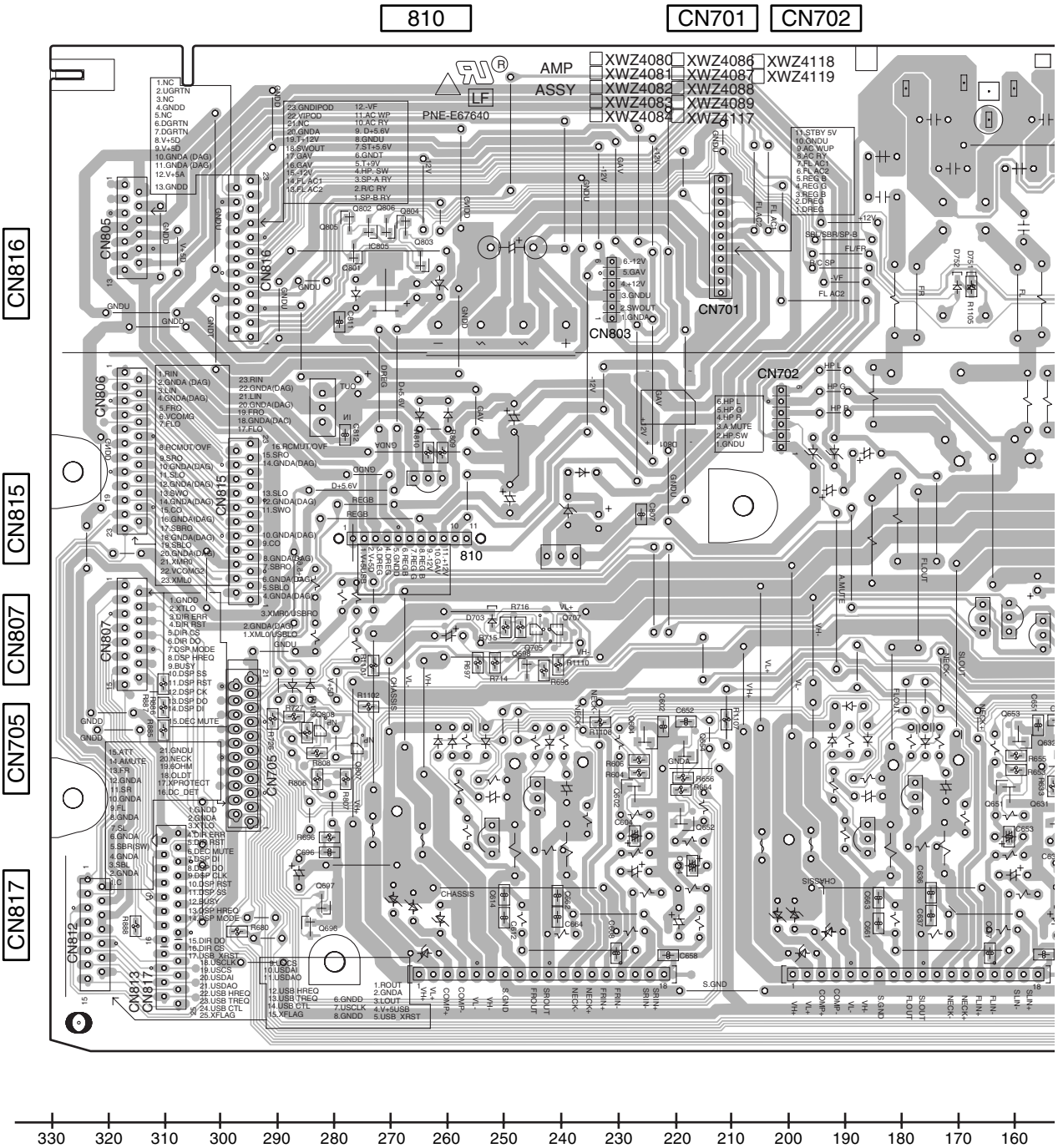
C

SIDE A


G 1551
D 851
P CN800
A CN111
CN702
CN701
810
CN816
CN805
B CN902
CN815
B CN109
A CN701
CN806
B CN701
CN807
B CN952
CN705
A CN114
CN817
A CN112
(XNP3101-C)
FR
XWZ4080
XWZ4081
XWZ4082
XWZ4083
XWZ4084
XWZ4086
XWZ4087
XWZ4088
XWZ4089
XWZ4117
XWZ4118
XWZ4119
PNE-E6640
POWERPACK ASSY
CAUTION
REPLACE IC LINKS AS MARKED. MFD. AS LITTLE FUSE INC.
word surface
CHASSIS
PRINTED SIDE TA7805S
PRINTED SIDE TA7808S
J606 BLUE
J607 BROWN
J601 WHITE
J602 WHITE
CONTACT SIDE

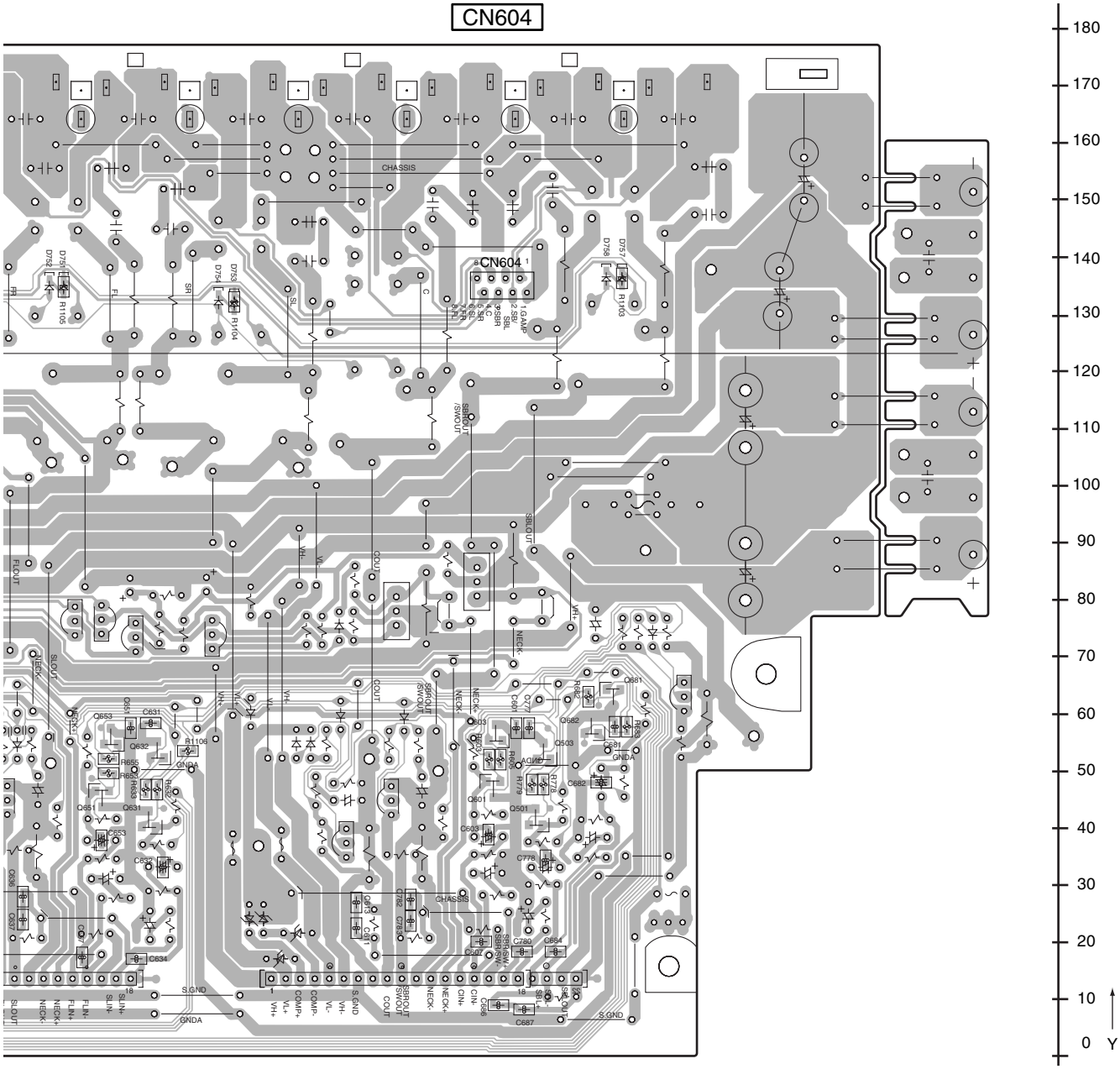
SIDE B

C POWER PACK ASSY



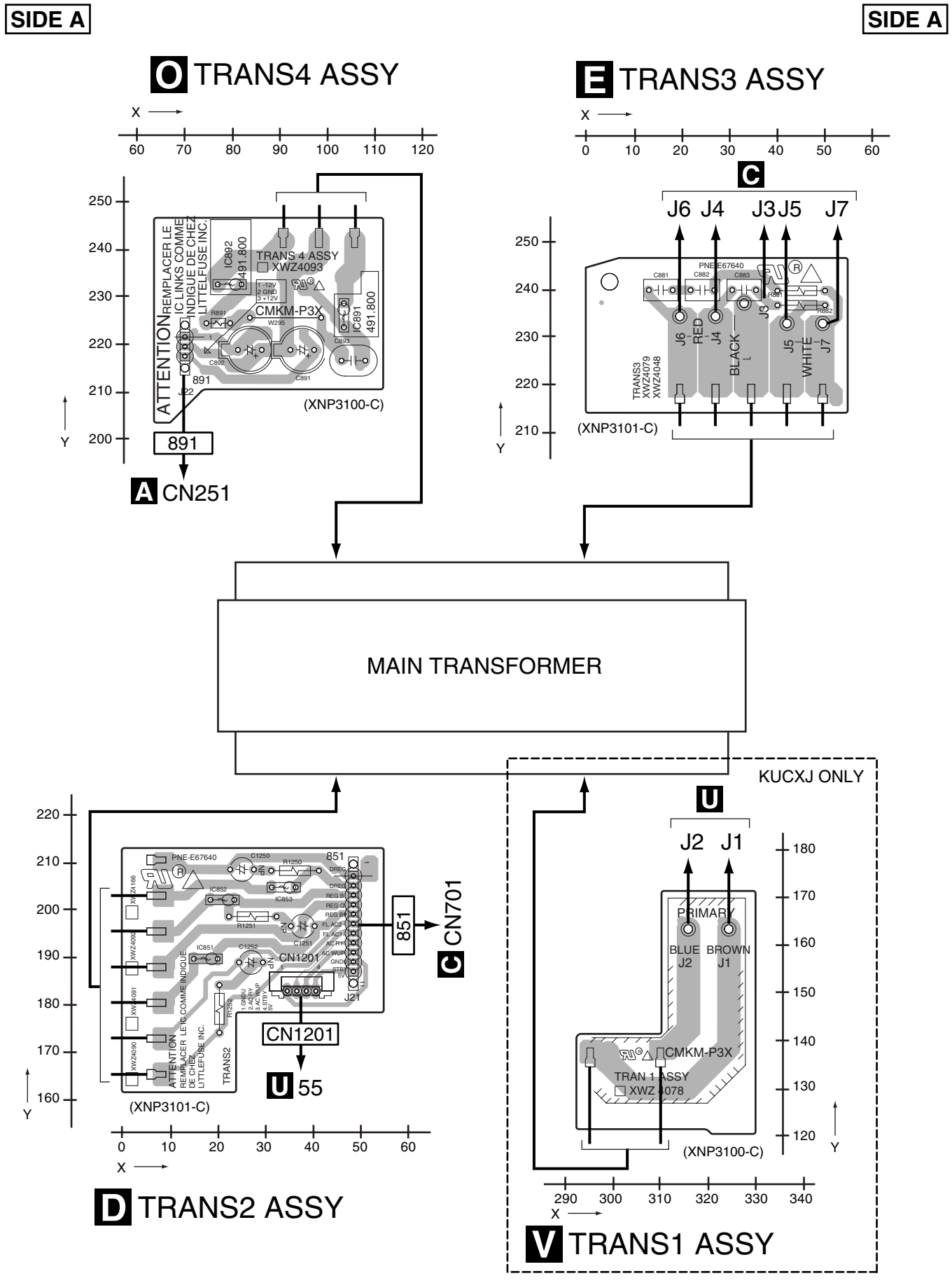
SIDE B

CN604



(XNP3101-C)

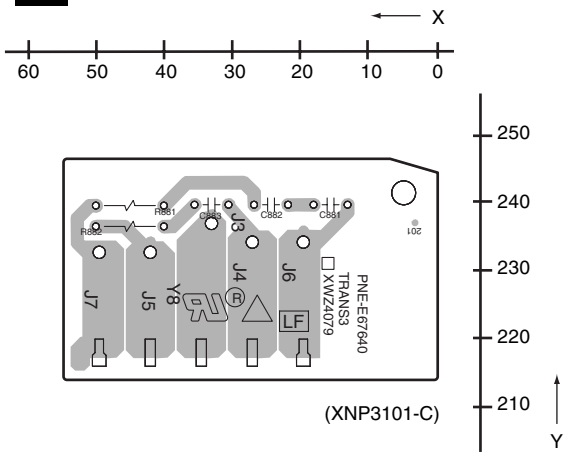
4.5 TRANS2, TRANS3, TRANS4 and TRANS1 ASSYS



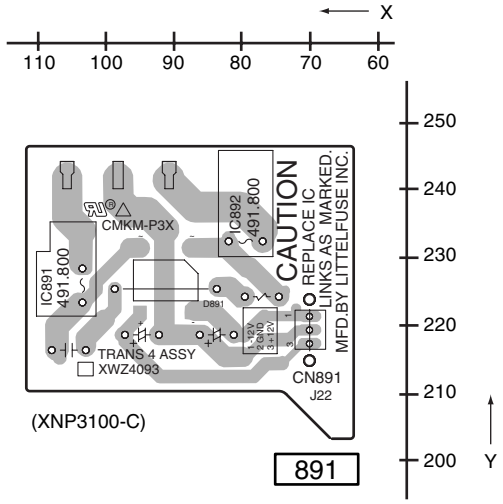
SIDE B

SIDE B

E TRANS3 ASSY

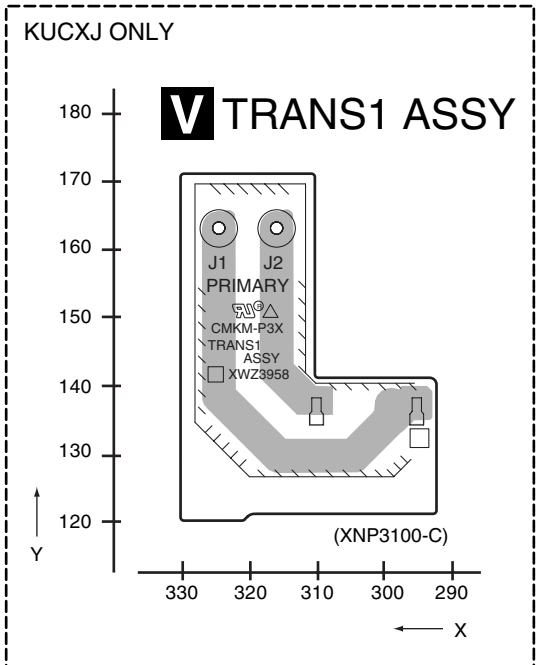


O TRANS4 ASSY

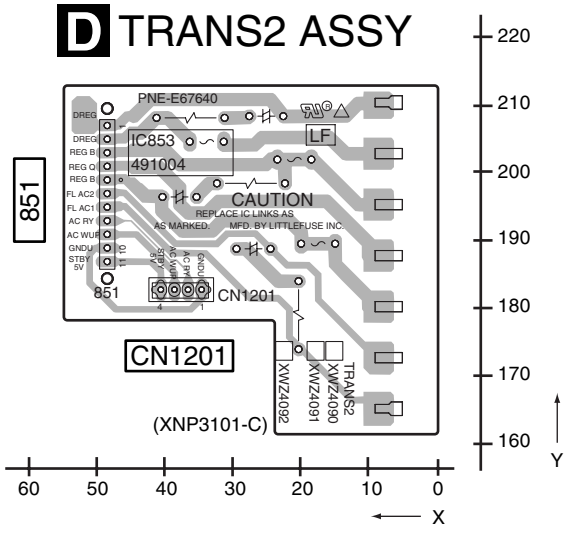


KUCXJ ONLY

V TRANS1 ASSY

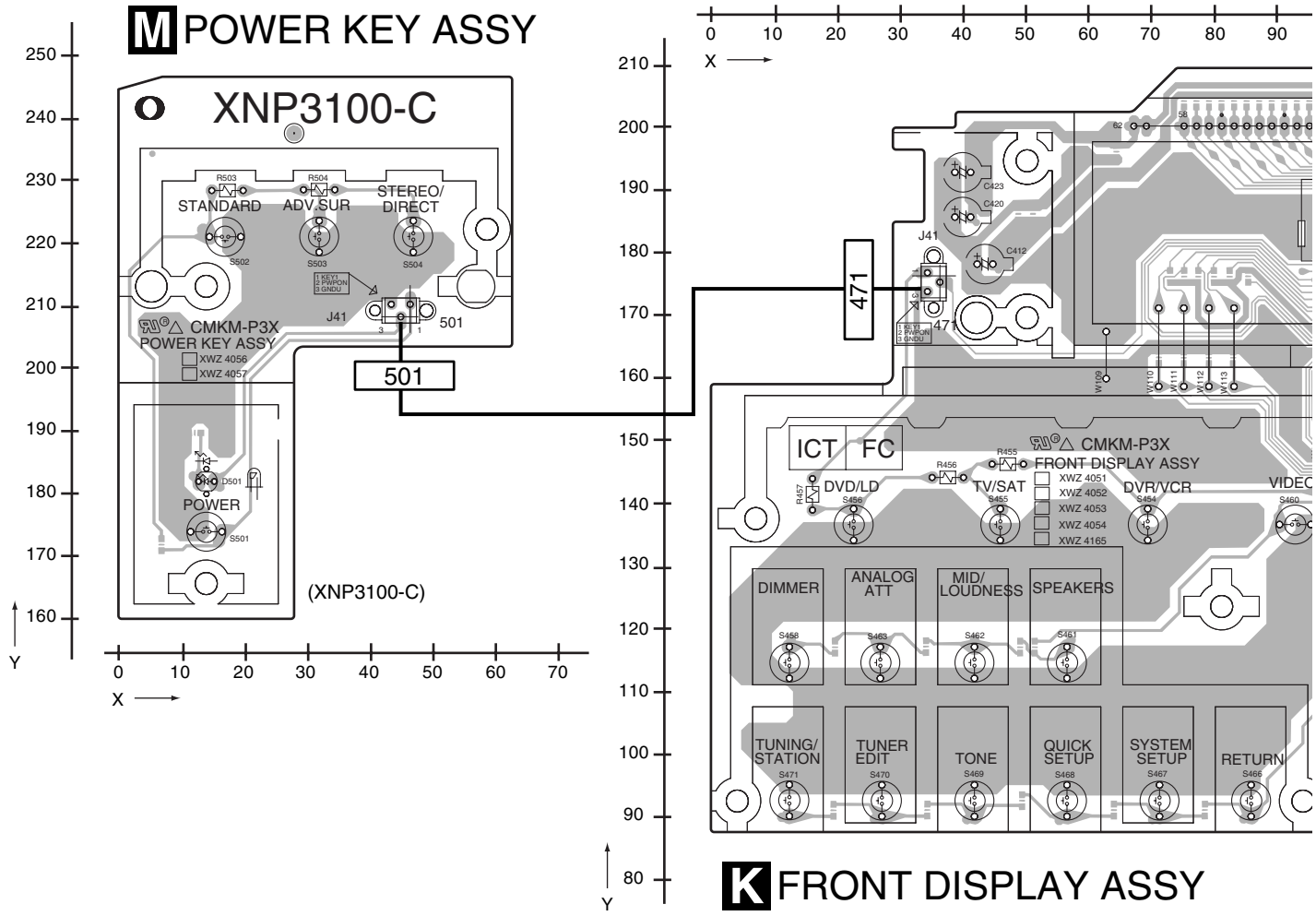


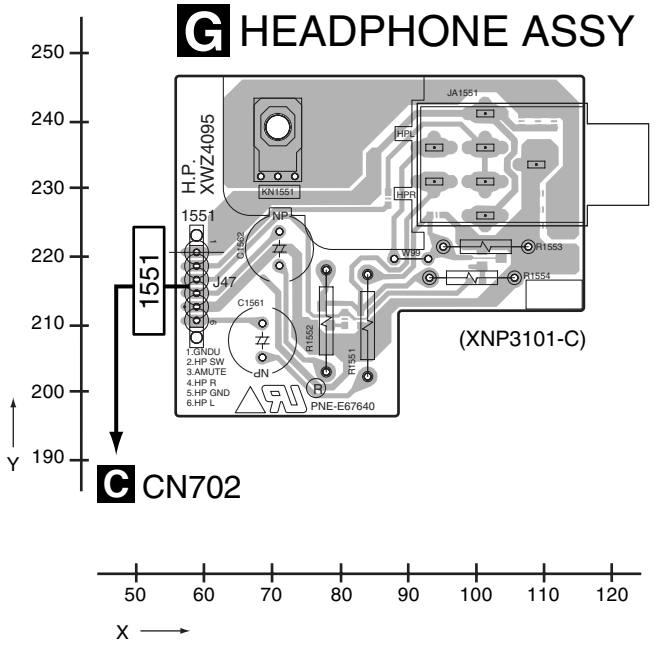
D TRANS2 ASSY



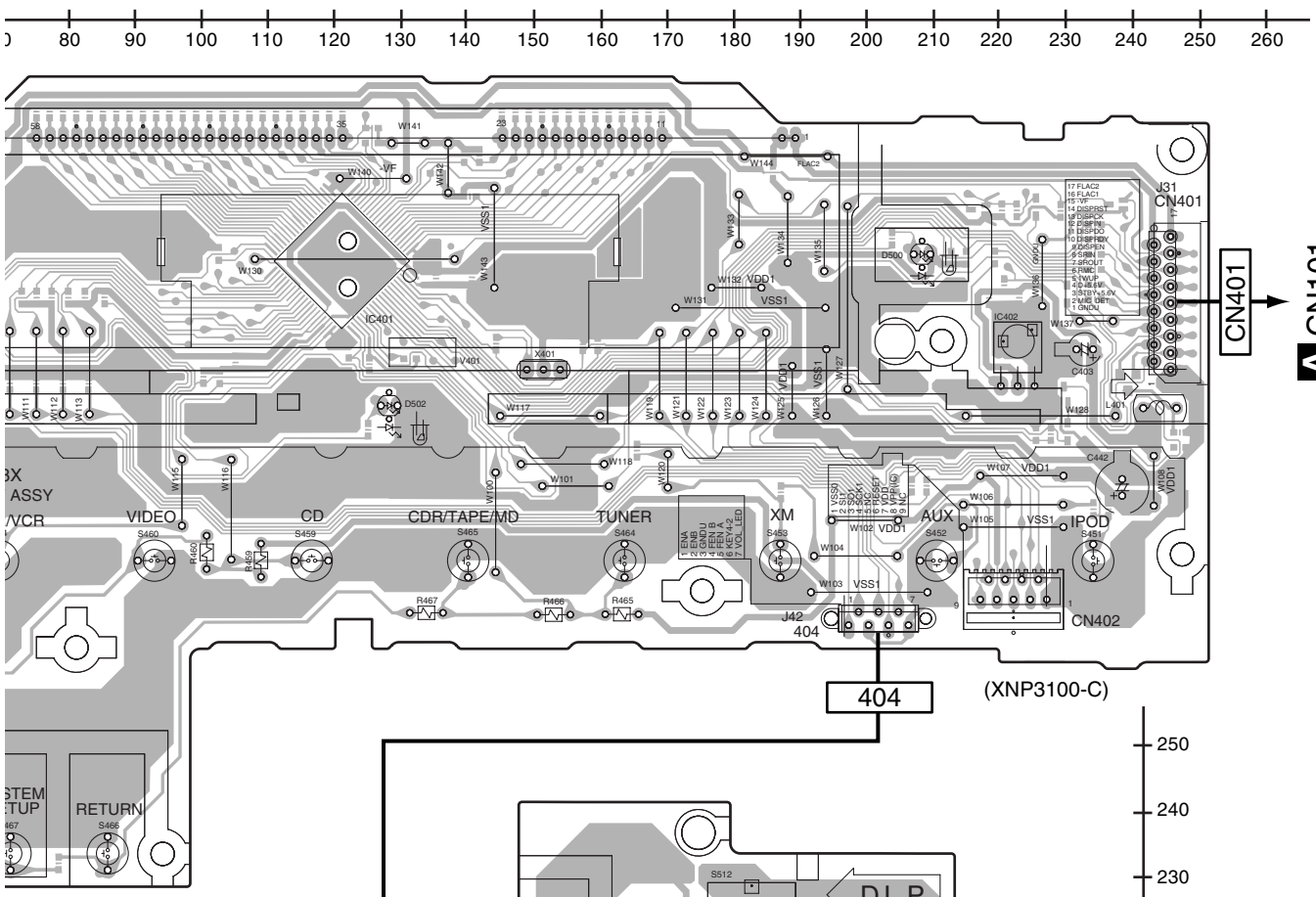
4.6 HEAD PHONE, FRONT DISPLY, R. ENCODER and POWER KEY ASSYS

SIDE A

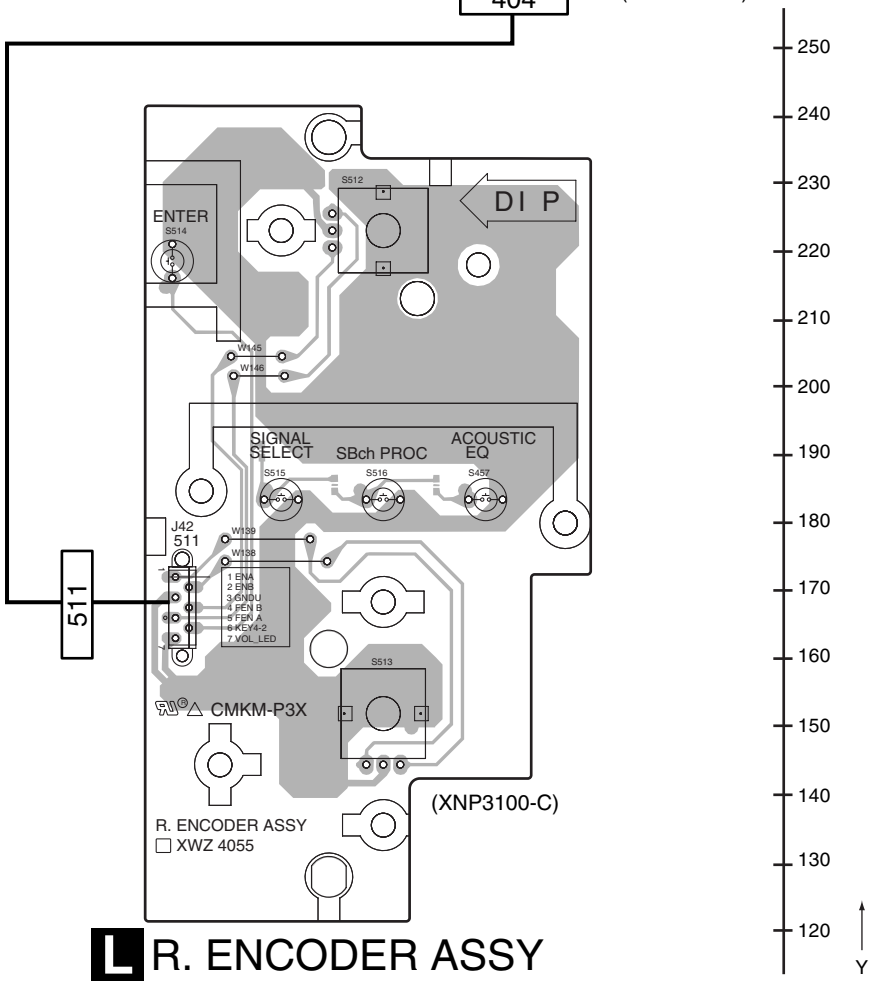




G K M

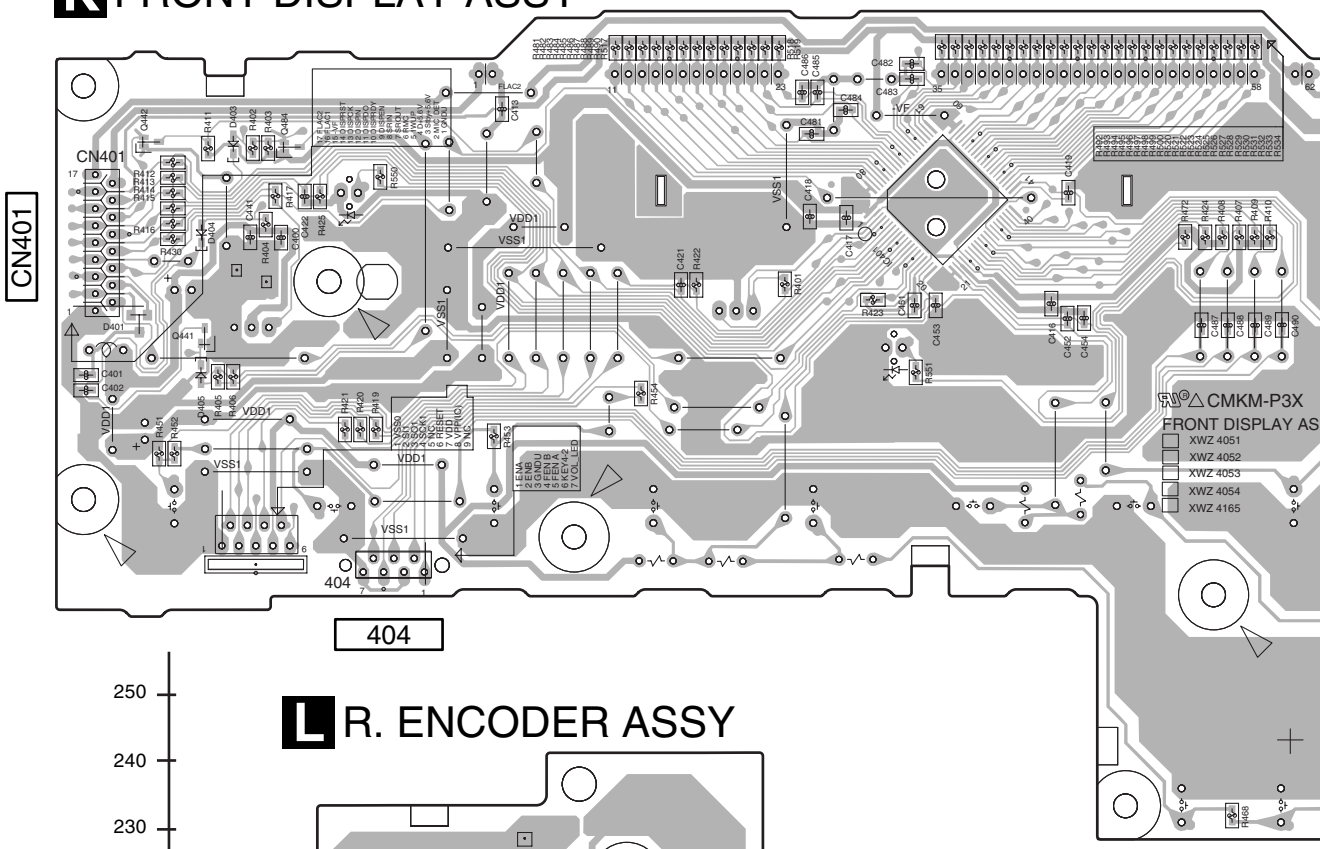


SY

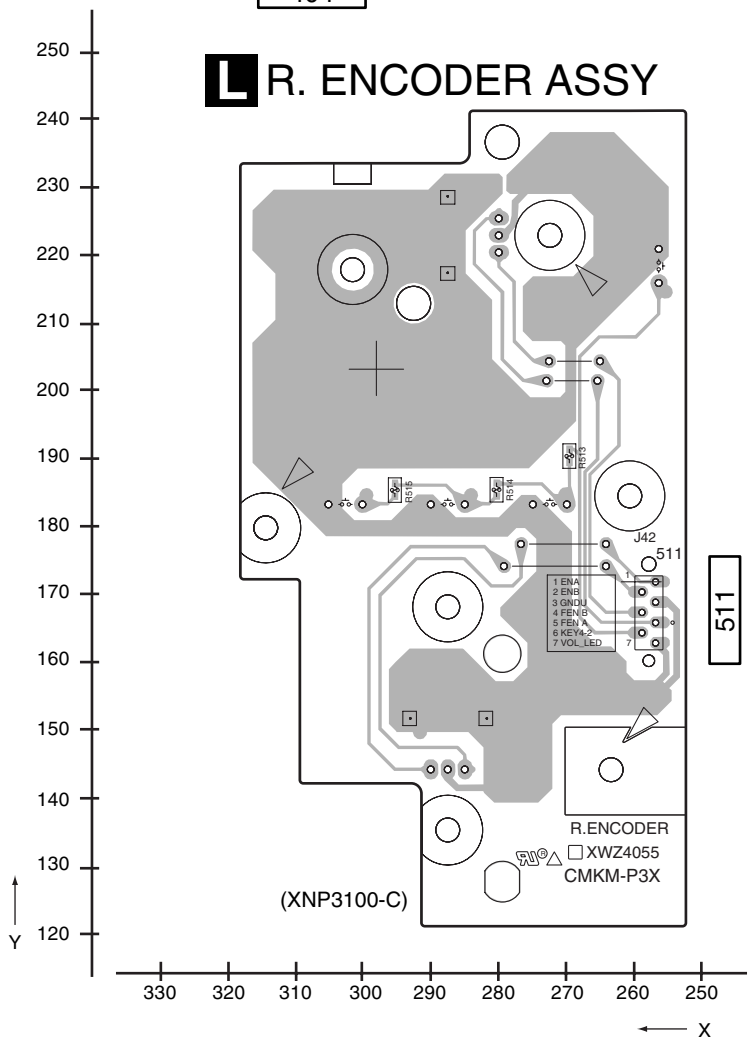


L R. ENCODER ASSY

K FRONT DISPLAY ASSY

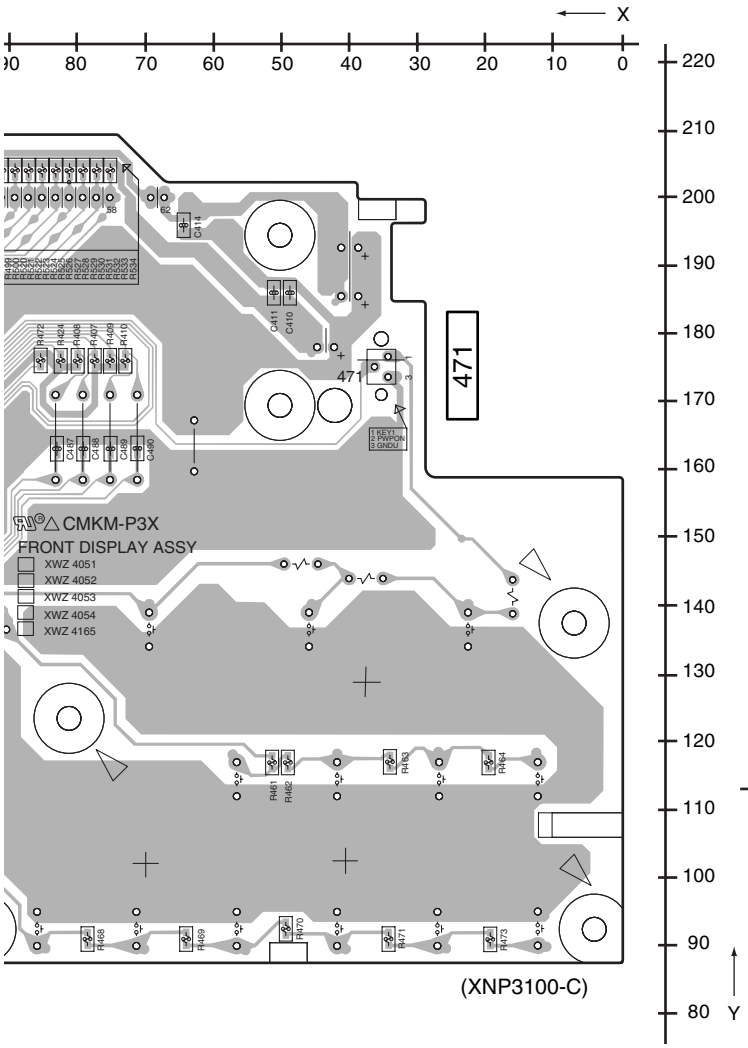


L R. ENCODER ASSY

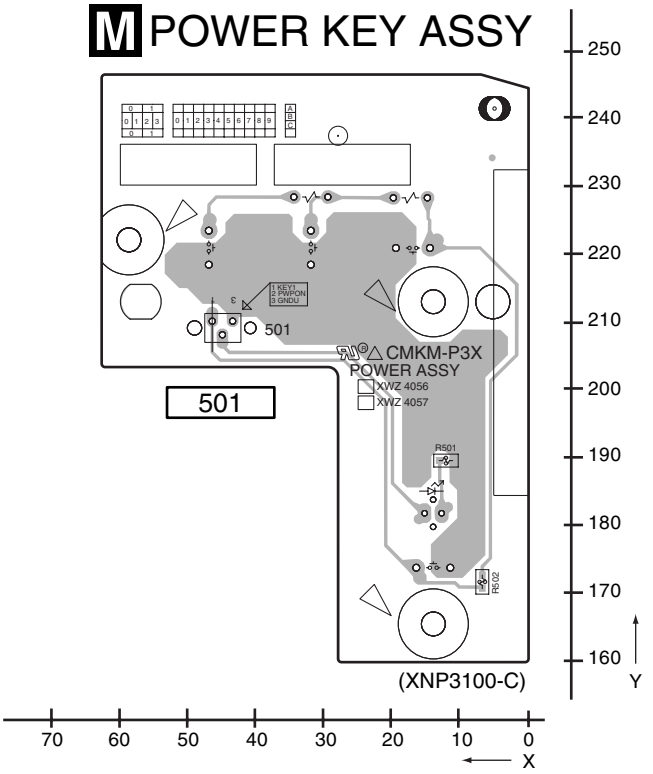


K L

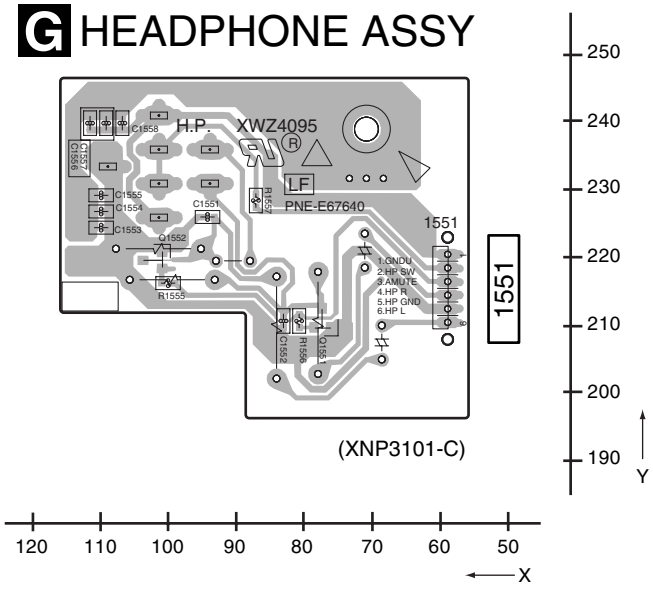
SIDE B



M POWER KEY ASSY



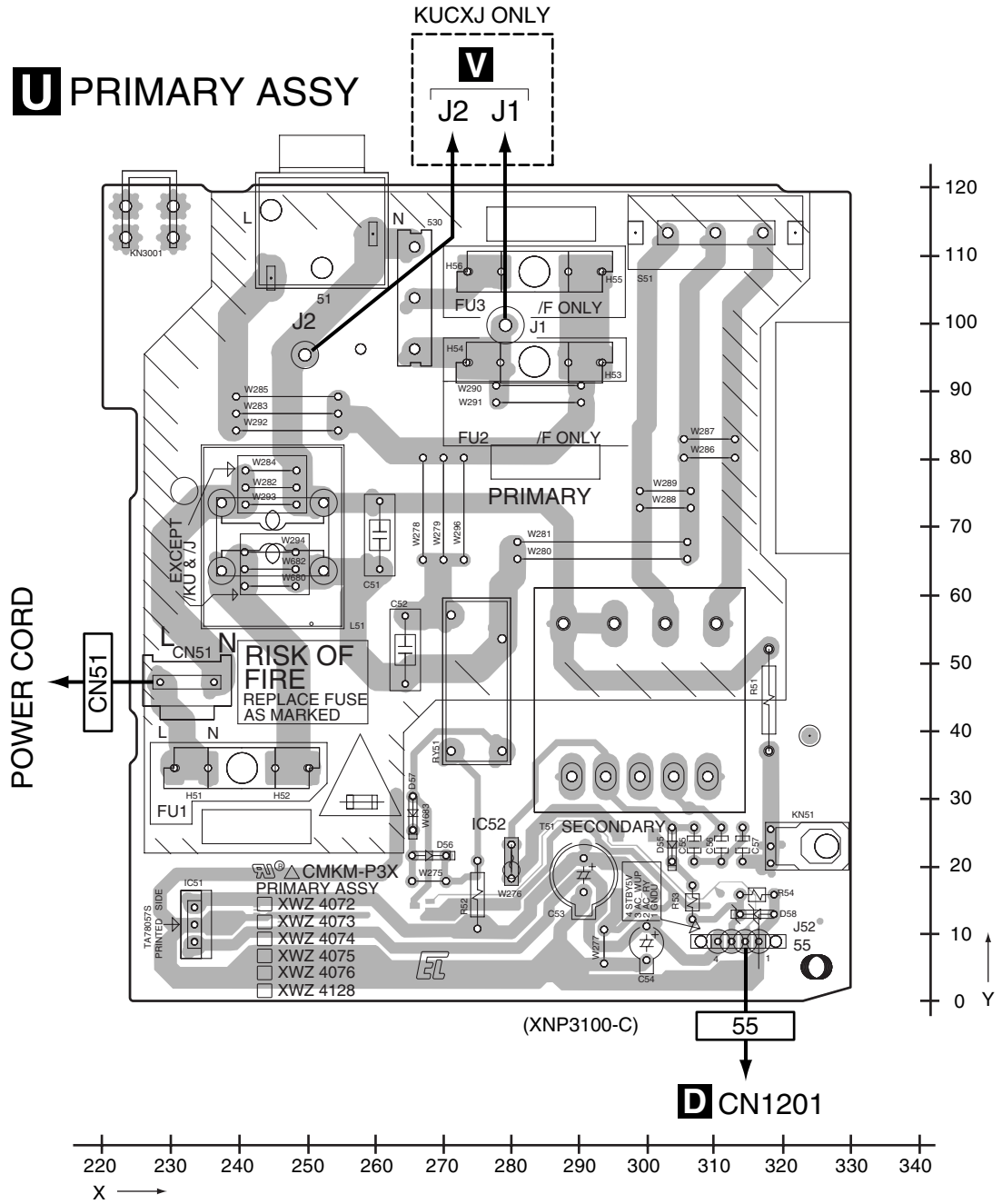
G HEADPHONE ASSY



5 6 7 8

4.7 PRIMARY ASSY

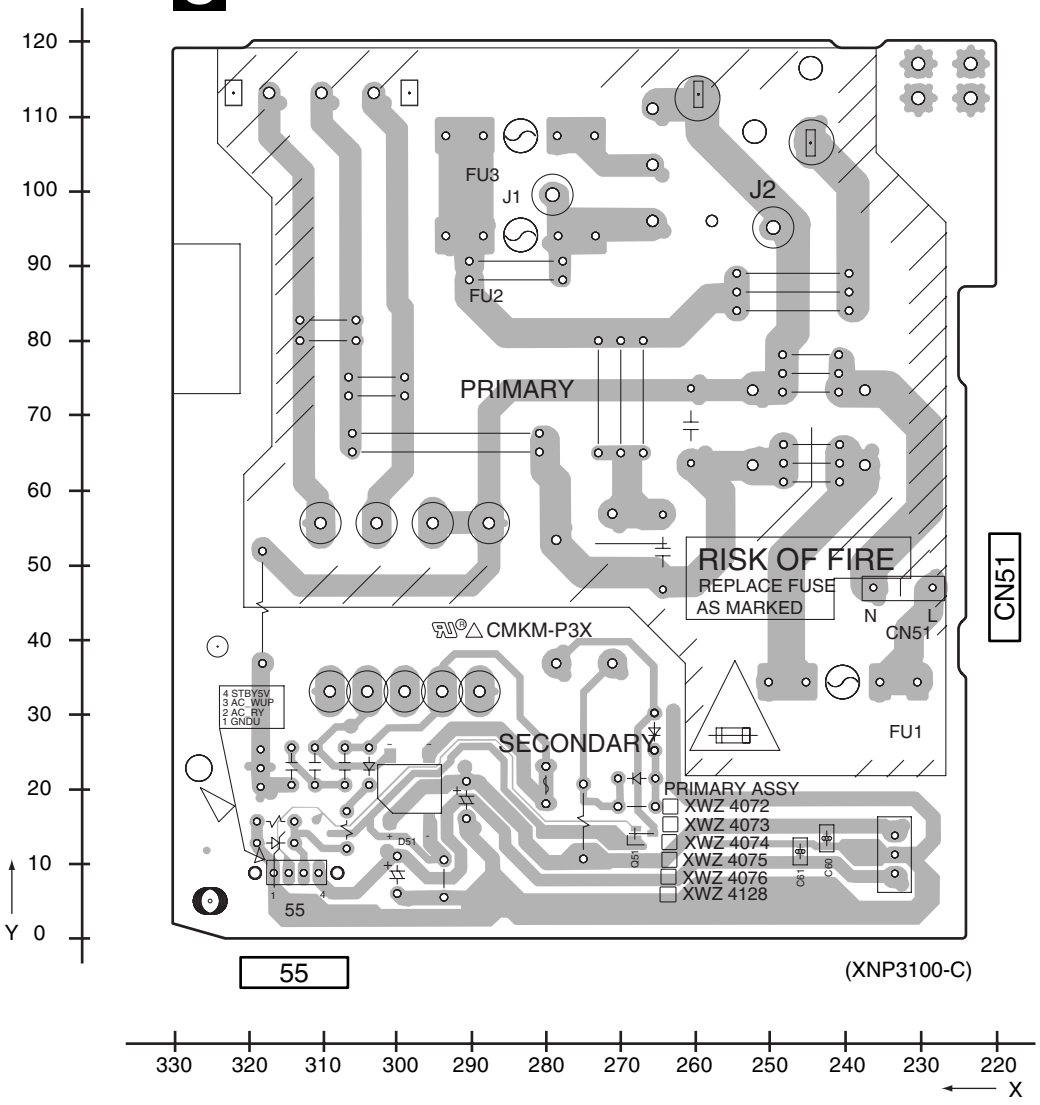
SIDE A **SIDE A**



SIDE B

SIDE B

U PRIMARY ASSY



CN51

A B C D E F

U

U

5 6 7 8

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→ *56 x 10[1]* →	*561*	*RD1/4PU 5 6 1 J*
47k Ω	→ *47 x 10[3]* →	*473*	*RD1/4PU 4 7 3 J*
0.5 Ω	→ *R50*		*RN2H R 5 0 K*
1 Ω	→ *1R0*		*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→ *562 x 10[1]* →	*5621*	*RN1/4PC 5 6 2 1 F*

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	Symbol and Description	SX-316-S /KUCXJ	SX-316-S /MYXJ5
	1..MAIN ASSY	XWK3227	XWK3244
	1..DSP ASSY	AWX8573	AWX8573
NSP	1..AMP ASSY	XWK3217	XWK3241
	2..POWER PACK ASSY	XWZ4080	XWZ4117
	2..TRANS2 ASSY	XWZ4090	XWZ4092
	2..TRANS3 ASSY	XWZ4079	XWZ4079
	2..HEADPHONE ASSY	XWZ4095	XWZ4095
	2..BINDER ASSY	XWZ4199	XWZ4199
NSP	1..COMPLEX ASSY	XWK3207	XWK3237
	2..FRONT DISPLAY ASSY	XWZ4165	XWZ4165
	2..R. ENCODER ASSY	XWZ4055	XWZ4055
	2..POWER KEY ASSY	XWZ4056	XWZ4056
	2..DIGITAL IN ASSY	XWZ4066	XWZ4066
	2..FRONT INPUT ASSY	XWZ4124	XWZ4124
	2..PRIMARY ASSY	XWZ4128	XWZ4073
	2..REGULATOR ASSY	XWZ4077	XWZ4077
	2..TRANS1 ASSY	XWZ4078	Not used
	2..TRANS4 ASSY	XWZ4093	XWZ4093
	1..FM/AM TUNER UNIT	AXX7210	AXX7170

■ CONTRAST OF PCB ASSEMBLIES

D TRANS2 ASSY

XWZ4092 and XWZ4090 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4090	XWZ4092
⚠	IC853 PROTECTOR(4A)	AEK7018	Not used
⚠	IC853 PROTECTOR(7A)	Not used	AEK7021

U PRIMARY ASSY

XWZ4073 and XWZ4128 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4128	XWZ4073
	D57	Not used	1SS133
⚠	L51	Not used	XTF3004
⚠	T51 STANDBY TRANSFORMER	ATT7043	ATT7040
⚠	530 3P TERMINAL	Not used	AKC-081
⚠	R51 (2.2M, 1/2W)	RCN1080	Not used

■ PCB PARTS LIST FOR SX-316/KUCXJ UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.

A MAIN ASSY (XWK3227)

MISCELLANEOUS

	IC 103	(A,198,72) OP-AMP IC	HA17558AF
	IC 104	(A,198,56) OP-AMP IC	HA17558AF
	IC 105	(A,198,87) OP-AMP IC	HA17558AF
	IC 107	(A,216,88) OP-AMP IC	HA17558AF
	IC 108	(B,255,64) 8CH E-VOL	R2S15205FP
	IC 251	(A,85,102) OP-AMP IC	HA17558AF
	IC 310	(A,142,40) OP-AMP IC	BA4560RF
	IC 311	(A,152,59) OP-AMP IC	BA4560RF
	IC 312	(A,142,77) OP-AMP IC	BA4560RF
	IC 9001	(B,82,64) CPU	PEG217A
	IC 9002	(A,103,44) EEPROM	BR24L16FV-W
	Q 252	(A,68,105) TRANSISTOR	2SD1858X
	Q 253	(A,75,108) TRANSISTOR	RT1N241M
	Q 254	(A,72,98) DIGITAL TR(SC-70)	RT1P241M
	Q 255	(A,75,98) TRANSISTOR	RT1N241M
	Q 256	(A,75,94) CHIP TRANSISTOR	2SD2704K
	Q 257	(A,78,108) TRANSISTOR	2SA1576A
	Q 361	(A,166,78) CHIP TRANSISTOR	2SD2704K
	Q 9001	(A,125,87) DIGITAL TR(SC-70)	RT1N431M
	Q 9002	(A,66,80) DIGITAL TR(SC-70)	RT1P241M
	Q 9003	(A,65,75) DIGITAL TR(SC-70)	RT1P241M
	Q 9007	(A,69,85) TRANSISTOR	DTC143TK
	Q 9064	(A,59,80) DIGITAL TR(SC-70)	RT1P241M
	Q 9065	(A,55,78) TRANSISTOR	UMD2N
	D 103	(B,173,155) DIODE	DAN217U
	D 105	(B,163,37) DIODE	DAN217U
	D 107	(B,166,37) DIODE	DAN217U
	D 251	(A,83,96) DIODE	DAN217U
	D 253	(A,70,114) DIODE	UDZS27(B)
	D 254	(A,90,104) DIODE	UDZS5R1(B)
	D 311	(B,259,93) DIODE	1SS355
	D 312	(B,268,93) DIODE	1SS355
	D 331	(B,260,87) DIODE	UDZS6R8(B)
	D 332	(B,263,87) DIODE	UDZS6R8(B)
	D 9001	(A,125,103) DIODE	DAP202U
	D 9002	(A,119,103) DIODE	DAP202U
	D 9003	(A,122,103) DIODE	DAN202U
	D 9006	(B,99,89) DIODE	DAN217U
	D 9007	(B,91,89) DIODE	DAN217U
	D 9010	(A,128,88) DIODE	1SS355
	D 9011	(A,60,75) DIODE	DAN202U
	D 9064	(A,58,75) DIODE	DAP202U
	D 9065	(A,63,80) DIODE	DAP202U
	D 9068	(A,53,81) DIODE	1SS355
	L 101	(B,260,98) CHIP SOLID INDUCTOR	QTL1013
	L 102	(B,265,97) CHIP SOLID INDUCTOR	QTL1013
	L 5002	(A,257,104) CHIP SOLID INDUCTOR	QTL1013
	L 9001	(A,123,107) CHIP SOLID INDUCTOR	ATL7002
	L 9002	(A,121,107) CHIP SOLID INDUCTOR	ATL7002
	L 9003	(A,106,98) RADIAL INDUCTOR	LFCA2R2J
	X 9001	(A,96,53) CERAMIC RESONATOR (15.7 MHz)	XSS3004
	CN101	(A,41,27) CONNECTOR	CKS3382
	CN103	(A,230,17) 11P CONNECTOR	52044-1145
	CN107	(A,39,99) 3P JUMPER CONNECTOR	52147-0310
	CN109	(A,230,113) 19P SOCKET	XKP3054
	CN111	(A,276,113) 21P SOCKET	XKP3091
	CN112	(A,91,41) CONNECTOR	CKS3382
	CN114	(A,189,113) 21P SOCKET	XKP3091
	CN126	(A,302,98) 6P PIN JACK	XKB3055
	CN251	(A,39,83) 3P JUMPER CONNECTOR	52147-0310
	CN252	(A,37,69) 3P TOP POST	B3B-EH

RESISTORS

	R 107	(B,283,87)	RS1/16S331J
	R 108	(B,293,81)	RS1/16S331J
	R 111	(B,283,115)	RS1/16S222J
	R 112	(B,283,106)	RS1/16S222J
	R 113	(B,283,101)	RS1/16S331J
	R 114	(B,293,96)	RS1/16S331J
	R 145	(A,71,73)	RS1/16S102J
	R 146	(A,71,74)	RS1/16S102J
	R 147	(B,233,67)	RS1/16S472J
	R 148	(B,228,62)	RS1/16S472J
	R 149	(A,259,45)	RS1/16S104J
	R 156	(B,295,107)	RS1/16S0R0J
	R 157	(B,293,114)	RS1/16S0R0J
	R 180	(B,278,97)	RS1/16S0R0J
	R 181	(B,272,78)	RS1/16S0R0J
	R 201	(A,189,85)	RS1/16S473J
	R 202	(A,189,90)	RS1/16S473J
	R 203	(B,187,85)	RS1/16S392J
	R 204	(B,187,91)	RS1/16S392J
	R 205	(B,189,85)	RS1/16S392J
	R 206	(B,189,91)	RS1/16S392J
	R 207	(B,191,85)	RS1/16S392J
	R 208	(B,191,91)	RS1/16S392J
	R 209	(B,198,85)	RS1/16S392J
	R 210	(B,198,91)	RS1/16S392J
	R 211	(B,200,85)	RS1/16S332J
	R 212	(B,200,91)	RS1/16S332J
	R 213	(B,202,85)	RS1/16S680J
	R 214	(B,202,91)	RS1/16S680J
	R 219	(B,216,84)	RS1/16S0R0J
	R 220	(B,215,91)	RS1/16S0R0J
	R 221	(B,220,84)	RS1/16S472J
	R 222	(B,219,91)	RS1/16S472J
	R 225	(B,225,84)	RS1/16S392J
	R 226	(B,225,91)	RS1/16S392J
	R 227	(B,231,84)	RS1/16S101J
	R 228	(B,233,89)	RS1/16S101J
	R 233	(A,231,91)	RS1/16S474J
	R 234	(A,231,84)	RS1/16S474J
	R 241	(A,190,69)	RS1/16S473J
	R 242	(A,190,74)	RS1/16S473J
	R 243	(B,186,69)	RS1/16S332J
	R 244	(B,186,75)	RS1/16S332J
	R 245	(B,188,69)	RS1/16S332J
	R 246	(B,188,75)	RS1/16S332J
	R 247	(B,190,69)	RS1/16S332J
	R 248	(B,190,75)	RS1/16S332J
	R 249	(B,197,69)	RS1/16S332J
	R 250	(B,197,75)	RS1/16S332J
	R 251	(B,199,69)	RS1/16S182J

Mark	No.	Description	Part No.
	R 252	(B,199,75)	RS1/16S182J
	R 253	(B,202,69)	RS1/16S0R0J
	R 254	(B,202,75)	RS1/16S0R0J
A	R 257	(B,213,69)	RS1/16S101J
	R 258	(B,213,75)	RS1/16S101J
	R 261	(A,189,53)	RS1/16S473J
	R 262	(A,189,59)	RS1/16S473J
	R 263	(B,186,53)	RS1/16S332J
	R 264	(B,186,60)	RS1/16S332J
	R 265	(B,188,53)	RS1/16S332J
	R 266	(B,188,60)	RS1/16S682J
	R 267	(B,190,53)	RS1/16S332J
	R 268	(B,190,60)	RS1/16S393J
	R 269	(B,197,53)	RS1/16S332J
B	R 270	(B,197,60)	RS1/16S122J
	R 271	(B,199,53)	RS1/16S182J
	R 272	(B,199,60)	RS1/16S272J
	R 273	(B,202,53)	RS1/16S0R0J
	R 274	(B,202,60)	RS1/16S271J
	R 277	(B,214,53)	RS1/16S101J
	R 278	(B,213,61)	RS1/16S101J
	R 280	(A,65,113)	RS1/16S0R0J
	R 303	(B,156,37)	RS1/16S101J
	R 304	(B,155,43)	RS1/16S101J
	R 305	(B,160,49)	RS1/16S101J
C	R 306	(B,164,61)	RS1/16S101J
	R 307	(B,165,68)	RS1/16S101J
	R 308	(B,171,72)	RS1/16S101J
	R 311	(A,258,102) METAL OXIDE RESISTOR	RS1LMF101J
	R 312	(A,266,102) METAL OXIDE RESISTOR	RS1LMF101J
	R 431	(A,131,93)	RS1/16S104J
	R 432	(A,127,93)	RS1/16S104J
	R 433	(A,128,93)	RS1/16S104J
	R 434	(A,134,93)	RS1/16S104J
	R 435	(A,126,93)	RS1/16S104J
D	R 436	(A,130,93)	RS1/16S104J
	R 438	(A,81,98)	RS1/16S104J
	R 439	(A,86,96)	RS1/16S104J
	R 440	(A,81,108)	RS1/16S754J
	R 441	(A,79,98)	RS1/16S222J
	R 442	(A,77,98)	RS1/16S104J
	R 443	(A,63,104)	RS1/16S471J
	R 445	(A,73,108)	RS1/16S223J
	R 446	(A,74,113)	RS1/16S104J
	R 447	(A,88,94)	RS1/16S472J
	R 448	(A,89,104)	RS1/16S104J
E	R 449	(A,80,108)	RS1/16S102J
	R 457	(A,140,35)	RS1/16S182J
	R 458	(A,140,46)	RS1/16S182J
	R 459	(B,133,38)	RS1/16S103J
	R 460	(B,133,43)	RS1/16S103J
	R 461	(B,145,39)	RS1/16S104J
	R 462	(B,145,43)	RS1/16S104J
	R 464	(A,78,102)	RS1/16S0R0J
	R 477	(A,149,52)	RS1/16S182J
	R 478	(A,150,65)	RS1/16S182J
F	R 479	(B,142,57)	RS1/16S103J
	R 480	(B,142,62)	RS1/16S103J
	R 481	(B,154,58)	RS1/16S104J
	R 482	(B,154,62)	RS1/16S104J

Mark	No.	Description	Part No.
	R 483	(B,144,76)	RS1/16S104J
	R 485	(A,157,80)	RS1/16S472J
	R 488	(A,165,73)	RS1/16S0R0J
	R 494	(A,141,83)	RS1/16S911J
	R 496	(A,148,83)	RS1/16S272J
	R 497	(A,139,69)	RS1/16S182J
	R 498	(A,139,83)	RS1/16S152J
	R 499	(B,133,72)	RS1/16S103J
	R 500	(B,133,79)	RS1/16S104J
	R 502	(B,144,80)	RS1/16S822J
	R 518	(B,150,83)	RS1/16S0R0J
	R 550	(A,147,84)	RS1/16S472J
	R 9002	(A,129,89)	RS1/16S473J
	R 9005	(A,91,55)	RS1/16S0R0J
	R 9006	(B,103,89)	RS1/16S474J
	R 9007	(B,93,89)	RS1/16S474J
	R 9008	(A,86,90)	RS1/16S221J
	R 9009	(A,65,85)	RS1/16S473J
	R 9010	(B,115,45)	RS1/16S512J
	R 9011	(A,63,76)	RS1/16S102J
	R 9012	(A,63,73)	RS1/16S0R0J
	R 9013	(B,112,45)	RS1/16S471J
	R 9014	(B,104,54)	RS1/16S471J
	R 9015	(B,101,54)	RS1/16S471J
	R 9016	(B,99,54)	RS1/16S471J
	R 9017	(B,97,54)	RS1/16S471J
	R 9018	(B,95,54)	RS1/16S471J
	R 9019	(B,98,76)	RS1/16S471J
	R 9020	(B,99,76)	RS1/16S471J
	R 9021	(B,101,76)	RS1/16S471J
	R 9022	(B,103,76)	RS1/16S471J
	R 9025	(B,101,68)	RS1/16S0R0J
	R 9026	(B,107,68)	RS1/16S0R0J
	R 9030	(A,68,79)	RS1/16S470J
	R 9031	(B,69,48)	RS1/16S104J
	R 9032	(A,66,59)	RS1/16S104J
	R 9033	(B,89,48)	RS1/16S104J
	R 9036	(A,88,89)	RS1/16S221J
	R 9037	(A,124,99)	RS1/16S104J
	R 9039	(A,87,58)	RS1/16S104J
	R 9041	(B,117,45)	RS1/16S104J
	R 9045	(A,98,46)	RS1/16S471J
	R 9046	(A,107,45)	RS1/16S471J
	R 9047	(A,99,46)	RS1/16S103J
	R 9048	(A,98,43)	RS1/16S103J
	R 9060	(B,98,68)	RS1/16S473J
	R 9062	(B,87,48)	RS1/16S471J
	R 9064	(A,54,74)	RS1/16S103J
	R 9065	(A,56,74)	RS1/16S103J
	R 9066	(A,62,72)	RS1/16S103J
	R 9067	(A,57,83)	RS1/16S103J
	R 9081	(A,120,72)	RS1/16S221J
	R 9082	(A,122,69)	RS1/16S274J

CAPACITORS

	C 115	(B,262,98)	CKSRYB103K50
	C 116	(B,267,97)	CKSRYB103K50
	C 117	(A,287,109)	CCSRCH220J50
	C 118	(B,285,109)	CCSRCH220J50
	C 131	(A,280,87)	CEAT100M50

Mark No.	Description	Part No.
C 132	(A,280,80)	CEAT100M50
C 135	(A,280,114)	CEAT100M50
C 136	(A,280,106)	CEAT100M50
C 137	(A,280,101)	CEAT100M50
C 138	(A,280,93)	CEAT100M50
C 139	(A,53,95)	CEAT100M50
C 140	(A,53,100)	CEAT100M50
C 141	(A,256,82)	CKSRYB104K50
C 145	(B,256,81)	CCSRCH101J50
C 146	(B,258,81)	CCSRCH101J50
C 147	(B,253,81)	CKSRYB103K50
C 148	(B,238,67)	CKSRYB223K50
C 149	(B,235,67)	CKSRYB223K50
C 150	(B,231,67)	CKSRYB683K16
C 151	(B,49,51)	CKSRYB103K50
C 152	(B,230,62)	CKSRYB223K50
C 153	(B,234,62)	CKSRYB223K50
C 154	(B,232,62)	CKSRYB683K16
C 155	(A,226,62)	CEAT101M16
C 156	(A,229,56)	CEAT101M16
C 157	(A,236,56)	CEAT101M16
C 158	(A,232,50)	CEAT101M16
C 159	(A,241,50)	CEAT101M16
C 160	(A,234,44)	CEAT101M16
C 161	(A,241,44)	CEAT101M16
C 162	(A,248,44)	CEAT101M16
C 165	(A,240,86)	CEAT1R0M50
C 166	(A,248,86)	CEAT1R0M50
C 179	(B,294,76)	CKSRYB103K50
C 180	(A,277,16)	CKSRYB103K50
C 199	(A,281,50)	CKSRYB103K50
C 201	(A,183,85)	CEAT2R2M50
C 202	(A,184,92)	CEAT2R2M50
C 203	(A,191,85)	CCSRCH471J50
C 204	(A,191,90)	CCSRCH471J50
C 205	(A,193,85)	CCSRCH331J50
C 206	(A,194,90)	CCSRCH331J50
C 207	(B,193,85)	CCSRCH331J50
C 208	(B,193,91)	CCSRCH331J50
C 213	(A,223,84)	CEAT100M50
C 214	(A,223,90)	CEAT100M50
C 215	(B,233,84)	CKSRYB103K50
C 216	(B,231,89)	CKSRYB103K50
C 217	(A,202,85)	CKSRYB103K50
C 218	(A,202,90)	CKSRYB103K50
C 219	(A,221,87)	CKSRYB104K16
C 220	(A,210,93)	CKSRYB104K16
C 241	(A,183,70)	CEAT2R2M50
C 242	(A,183,77)	CEAT2R2M50
C 243	(A,192,69)	CCSRCH101J50
C 244	(A,192,74)	CCSRCH101J50
C 245	(A,194,69)	CCSRCH331J50
C 246	(A,194,74)	CCSRCH331J50
C 247	(B,193,69)	CCSRCH331J50
C 248	(B,193,75)	CCSRCH331J50
C 249	(A,205,69)	CEAT100M50
C 250	(A,205,75)	CEAT100M50
C 251	(A,204,65)	CKSRYB103K50
C 252	(A,211,78)	CKSRYB103K50
C 253	(B,43,89)	CKSRYB103K50

Mark No.	Description	Part No.
C 254	(A,58,108) ELECT. CAPACITOR	CEAT101M25
C 255	(A,51,108) ELECT. CAPACITOR	CEANP470M25
C 256	(A,81,105)	CKSRYB103K50
C 257	(B,216,69)	CKSRYB472K50
C 258	(B,217,75)	CKSRYB472K50
C 261	(A,183,54)	CEAT2R2M50
C 262	(A,183,62)	CEAT2R2M50
C 263	(A,192,53)	CCSRCH101J50
C 264	(A,191,59)	CKSRYB223K50
C 265	(A,194,53)	CCSRCH331J50
C 266	(A,194,59)	CKSRYB103K50
C 267	(B,193,53)	CCSRCH331J50
C 268	(B,193,60)	CKSRYB562K50
C 269	(A,205,54)	CEAT100M50
C 270	(A,205,60)	CEAT100M50
C 271	(A,203,51)	CKSRYB103K50
C 272	(A,210,64)	CKSRYB103K50
C 277	(B,216,53)	CKSRYB472K50
C 278	(B,215,61)	CKSRYB472K50
C 321	(A,153,38)	CEAT100M50
C 322	(A,153,45)	CEAT100M50
C 325	(A,136,39) ELECT. CAPACITOR	CEAT220M50
C 326	(A,136,46) ELECT. CAPACITOR	CEAT220M50
C 327	(A,132,42)	CKSRYB103K50
C 328	(A,132,38)	CKSRYB103K50
C 333	(A,255,93)	CEAT101M10
C 334	(A,268,81)	CEAT101M10
C 341	(A,161,56)	CEAT100M50
C 342	(A,161,63)	CEAT100M50
C 345	(A,145,56) ELECT. CAPACITOR	CEAT220M50
C 346	(A,145,63) ELECT. CAPACITOR	CEAT220M50
C 347	(A,140,64)	CKSRYB103K50
C 348	(A,141,58)	CKSRYB103K50
C 361	(A,161,70)	CEAT100M50
C 362	(A,169,70) ELECT. CAPACITOR	CEATR22M50
C 364	(A,139,84)	CKSRYB472K50
C 365	(A,136,73) ELECT. CAPACITOR	CEAT220M50
C 366	(A,136,80) ELECT. CAPACITOR	CEANP4R7M50
C 367	(A,135,88)	CKSRYB103K50
C 368	(A,147,75)	CKSRYB103K50
C 370	(A,161,74)	CEAT1R0M50
C 392	(B,91,95)	CKSRYB102K50
C 1031	(A,286,57)	CCSRCH220J50
C 1041	(B,287,55)	CCSRCH220J50
C 5001	(B,233,10)	CKSRYB102K50
C 5002	(B,235,10)	CKSRYB103K50
C 5003	(B,237,10)	CKSRYB105K10
C 5025	(A,166,12)	CKSRYB102K50
C 5026	(A,169,13)	CKSRYB102K50
C 5027	(A,177,12)	CKSRYB102K50
C 5028	(A,179,13)	CCSRCH220J50
C 9004	(A,121,94)	CKSRYB103K50
C 9005	(A,116,99)	CEJQ2R2M50
C 9006	(A,122,88)	CKSRYB105K10
C 9007	(A,79,92) ELECT. CAPACITOR	CEAT331M6R3
C 9008	(B,77,90)	CKSRYB103K50
C 9011	(B,95,89)	CKSRYB473K25
C 9014	(B,87,88)	CKSRYB473K25
C 9015	(A,100,95)	CKSRYB102K50
C 9018	(B,72,72)	CKSRYB104K50

Mark	No.	Description	Part No.
C	9081(A,120,69)		CKSRYB103K50

A MAIN ASSY (XWK3244)

MISCELLANEOUS

IC	103 (A,198,72)	OP-AMP IC	HA17558AF
IC	104 (A,198,56)	OP-AMP IC	HA17558AF
IC	105 (A,198,87)	OP-AMP IC	HA17558AF
IC	107 (A,216,88)	OP-AMP IC	HA17558AF
IC	108 (B,255,64)	8CH E-VOL	R2S15205FP
IC	251 (A,85,102)	OP-AMP IC	HA17558AF
IC	310 (A,142,40)	OP-AMP IC	BA4560RF
IC	311 (A,152,59)	OP-AMP IC	BA4560RF
IC	312 (A,142,77)	OP-AMP IC	BA4560RF
IC	5001(A,69,19)	RDS DECORDER IC	LC72725M
IC	9001(B,82,64)	CPU	PEG217A
IC	9002(A,103,44)	EEPROM	BR24L16FV-W
Q	252 (A,68,105)	TRANSISTOR	2SD1858X
Q	253 (A,75,108)	TRANSISTOR	RT1N241M
Q	254 (A,72,98)	DIGITAL TR(SC-70)	RT1P241M
Q	255 (A,75,98)	TRANSISTOR	RT1N241M
Q	256 (A,75,94)	CHIP TRANSISTOR	2SD2704K
Q	257 (A,78,108)	TRANSISTOR	2SA1576A
Q	361 (A,166,78)	CHIP TRANSISTOR	2SD2704K
Q	9001(A,125,87)	DIGITAL TR(SC-70)	RT1N431M
Q	9002(A,66,80)	DIGITAL TR(SC-70)	RT1P241M
Q	9003(A,65,75)	DIGITAL TR(SC-70)	RT1P241M
Q	9007(A,69,85)	TRANSISTOR	DTC143TK
Q	9064(A,59,80)	DIGITAL TR(SC-70)	RT1P241M
Q	9065(A,55,78)	TRANSISTOR	UMD2N
D	103 (B,173,35)	DIODE	DAN217U
D	105 (B,163,37)	DIODE	DAN217U
D	107 (B,166,37)	DIODE	DAN217U
D	251 (A,83,96)	DIODE	DAN217U
D	253 (A,70,114)	DIODE	UDZS27(B)
D	254 (A,90,104)	DIODE	UDZS5R1(B)
D	311 (B,259,93)	DIODE	1SS355
D	312 (B,268,93)	DIODE	1SS355
D	331 (B,260,87)	DIODE	UDZS6R8(B)
D	332 (B,263,87)	DIODE	UDZS6R8(B)
D	9001(A,125,103)	DIODE	DAP202U
D	9002(A,119,103)	DIODE	DAP202U
D	9003(A,122,103)	DIODE	DAN202U
D	9006(B,99,89)	DIODE	DAN217U
D	9007(B,91,89)	DIODE	DAN217U
D	9010(A,128,88)	DIODE	1SS355
D	9011(A,60,75)	DIODE	DAN202U
D	9064(A,58,75)	DIODE	DAP202U
D	9065(A,63,80)	DIODE	DAP202U
D	9068(A,53,81)	DIODE	1SS355
L	101 (B,260,98)	CHIP SOLID INDUCTOR	QTL1013
L	102 (B,265,97)	CHIP SOLID INDUCTOR	QTL1013
L	5002(A,257,104)	CHIP SOLID INDUCTOR	QTL1013
L	9001(A,123,107)	CHIP SOLID INDUCTOR	ATL7002
L	9002(A,121,107)	CHIP SOLID INDUCTOR	ATL7002
L	9003(A,106,98)	RADIAL INDUCTOR	LFCA2R2J
X	5001(A,67,27)	CRYSTAL RESONATOR (4.332 MHz)	ASS7004
X	9001(A,96,53)	CERAMIC RESONATOR (15.7 MHz)	XSS3004

Mark	No.	Description	Part No.
CN	101 (A,41,27)	CONNECTOR	CKS3382
CN	103 (A,230,17)	11P CONNECTOR	52044-1145
CN	107 (A,39,99)	CONNECTOR POST	B3B-PH
CN	109 (A,230,113)	19P SOCKET	XKP3054
CN	111 (A,276,113)	21P SOCKET	XKP3091
CN	112 (A,91,41)	CONNECTOR	CKS3382
CN	114 (A,189,113)	21P SOCKET	XKP3091
CN	126 (A,302,98)	6P PIN JACK	XKB3055
CN	251 (A,39,83)	3P JUMPER CONNECTOR	52147-0310
CN	252 (A,37,69)	3P TOP POST	B3B-EH

RESISTORS

R	107 (B,283,87)		RS1/16S331J
R	108 (B,293,81)		RS1/16S331J
R	111 (B,283,115)		RS1/16S222J
R	112 (B,283,106)		RS1/16S222J
R	113 (B,283,101)		RS1/16S331J
R	114 (B,293,96)		RS1/16S331J
R	145 (A,71,73)		RS1/16S102J
R	146 (A,71,74)		RS1/16S102J
R	147 (B,233,67)		RS1/16S472J
R	148 (B,228,62)		RS1/16S472J
R	149 (A,259,45)		RS1/16S104J
R	156 (B,295,107)		RS1/16S0R0J
R	157 (B,293,114)		RS1/16S0R0J
R	180 (B,278,97)		RS1/16S0R0J
R	181 (B,272,78)		RS1/16S0R0J
R	201 (A,189,85)		RS1/16S473J
R	202 (A,189,90)		RS1/16S473J
R	203 (B,187,85)		RS1/16S392J
R	204 (B,187,91)		RS1/16S392J
R	205 (B,189,85)		RS1/16S392J
R	206 (B,189,91)		RS1/16S392J
R	207 (B,191,85)		RS1/16S392J
R	208 (B,191,91)		RS1/16S392J
R	209 (B,198,85)		RS1/16S392J
R	210 (B,198,91)		RS1/16S392J
R	211 (B,200,85)		RS1/16S332J
R	212 (B,200,91)		RS1/16S332J
R	213 (B,202,85)		RS1/16S680J
R	214 (B,202,91)		RS1/16S680J
R	219 (B,216,84)		RS1/16S0R0J
R	220 (B,215,91)		RS1/16S0R0J
R	221 (B,220,84)		RS1/16S472J
R	222 (B,219,91)		RS1/16S472J
R	225 (B,225,84)		RS1/16S392J
R	226 (B,225,91)		RS1/16S392J
R	227 (B,231,84)		RS1/16S101J
R	228 (B,233,89)		RS1/16S101J
R	233 (A,231,91)		RS1/16S474J
R	234 (A,231,84)		RS1/16S474J
R	241 (A,190,69)		RS1/16S473J
R	242 (A,190,74)		RS1/16S473J
R	243 (B,186,69)		RS1/16S332J
R	244 (B,186,75)		RS1/16S332J
R	245 (B,188,69)		RS1/16S332J
R	246 (B,188,75)		RS1/16S332J
R	247 (B,190,69)		RS1/16S332J
R	248 (B,190,75)		RS1/16S332J
R	249 (B,197,69)		RS1/16S332J

Mark No.	Description	Part No.
R 250	(B,197,75)	RS1/16S332J
R 251	(B,199,69)	RS1/16S182J
R 252	(B,199,75)	RS1/16S182J
R 253	(B,202,69)	RS1/16S0R0J
R 254	(B,202,75)	RS1/16S0R0J
R 257	(B,213,69)	RS1/16S101J
R 258	(B,213,75)	RS1/16S101J
R 261	(A,189,53)	RS1/16S473J
R 262	(A,189,59)	RS1/16S473J
R 263	(B,186,53)	RS1/16S332J
R 264	(B,186,60)	RS1/16S332J
R 265	(B,188,53)	RS1/16S332J
R 266	(B,188,60)	RS1/16S682J
R 267	(B,190,53)	RS1/16S332J
R 268	(B,190,60)	RS1/16S393J
R 269	(B,197,53)	RS1/16S332J
R 270	(B,197,60)	RS1/16S122J
R 271	(B,199,53)	RS1/16S182J
R 272	(B,199,60)	RS1/16S272J
R 273	(B,202,53)	RS1/16S0R0J
R 274	(B,202,60)	RS1/16S271J
R 277	(B,214,53)	RS1/16S101J
R 278	(B,213,61)	RS1/16S101J
R 280	(A,65,113)	RS1/16S0R0J
R 303	(B,156,37)	RS1/16S101J
R 304	(B,155,43)	RS1/16S101J
R 305	(B,160,49)	RS1/16S101J
R 306	(B,164,61)	RS1/16S101J
R 307	(B,165,68)	RS1/16S101J
R 308	(B,171,72)	RS1/16S101J
R 311	(A,258,102) METAL OXIDE RESISTOR	RS1LMF101J
R 312	(A,266,102) METAL OXIDE RESISTOR	RS1LMF101J
R 431	(A,131,93)	RS1/16S104J
R 432	(A,127,93)	RS1/16S104J
R 433	(A,128,93)	RS1/16S104J
R 434	(A,134,93)	RS1/16S104J
R 435	(A,126,93)	RS1/16S104J
R 436	(A,130,93)	RS1/16S104J
R 438	(A,81,98)	RS1/16S104J
R 439	(A,86,96)	RS1/16S104J
R 440	(A,81,108)	RS1/16S754J
R 441	(A,79,98)	RS1/16S222J
R 442	(A,77,98)	RS1/16S104J
R 443	(A,63,104)	RS1/16S471J
R 445	(A,73,108)	RS1/16S223J
R 446	(A,74,233)	RS1/16S104J
R 447	(A,88,94)	RS1/16S472J
R 448	(A,89,104)	RS1/16S104J
R 449	(A,80,108)	RS1/16S102J
R 453	(A,146,35)	RS1/16S102J
R 454	(A,142,46)	RS1/16S102J
R 455	(A,146,38)	RS1/16S272J
R 456	(A,147,43)	RS1/16S272J
R 457	(A,140,35)	RS1/16S153J
R 458	(A,140,46)	RS1/16S153J
R 459	(B,133,38)	RS1/16S103J
R 460	(B,133,43)	RS1/16S103J
R 461	(B,145,39)	RS1/16S104J
R 462	(B,145,43)	RS1/16S104J
R 464	(A,78,102)	RS1/16S0R0J

Mark No.	Description	Part No.
R 473	(A,151,53)	RS1/16S102J
R 474	(A,152,65)	RS1/16S102J
R 475	(A,157,52)	RS1/16S272J
R 476	(A,158,66)	RS1/16S272J
R 477	(A,149,52)	RS1/16S153J
R 478	(A,150,65)	RS1/16S153J
R 479	(B,142,57)	RS1/16S103J
R 480	(B,142,62)	RS1/16S103J
R 481	(B,154,58)	RS1/16S104J
R 482	(B,154,62)	RS1/16S104J
R 483	(B,144,76)	RS1/16S104J
R 484	(A,165,71)	RS1/16S104J
R 485	(A,157,80)	RS1/16S472J
R 488	(A,165,73)	RS1/16S0R0J
R 493	(A,141,71)	RS1/16S102J
R 494	(A,141,83)	RS1/16S911J
R 495	(A,147,71)	RS1/16S272J
R 496	(A,148,83)	RS1/16S272J
R 497	(A,139,69)	RS1/16S153J
R 498	(A,139,83)	RS1/16S153J
R 499	(B,133,72)	RS1/16S103J
R 500	(B,133,79)	RS1/16S104J
R 502	(B,144,80)	RS1/16S204J
R 518	(B,150,83)	RS1/16S0R0J
R 5005	(B,80,13)	RS1/16S0R0J
R 5010	(A,76,24)	RS1/16S473J
R 5011	(A,81,15)	RS1/16S473J
R 5012	(A,82,12)	RS1/16S102J
R 5013	(A,57,26)	RS1/16S102J
R 5016	(B,82,13)	RS1/16S0R0J
R 5020	(A,73,13)	RS1/16S0R0J
R 9002	(A,129,89)	RS1/16S473J
R 9005	(A,91,55)	RS1/16S0R0J
R 9006	(B,103,89)	RS1/16S474J
R 9007	(B,93,89)	RS1/16S474J
R 9008	(A,86,90)	RS1/16S221J
R 9009	(A,65,85)	RS1/16S473J
R 9010	(B,115,45)	RS1/16S512J
R 9011	(A,63,76)	RS1/16S102J
R 9012	(A,63,73)	RS1/16S0R0J
R 9013	(B,112,45)	RS1/16S471J
R 9014	(B,104,54)	RS1/16S471J
R 9015	(B,101,54)	RS1/16S471J
R 9016	(B,99,54)	RS1/16S471J
R 9017	(B,97,54)	RS1/16S471J
R 9018	(B,95,54)	RS1/16S471J
R 9019	(B,98,76)	RS1/16S471J
R 9020	(B,99,76)	RS1/16S471J
R 9021	(B,101,76)	RS1/16S471J
R 9022	(B,103,76)	RS1/16S471J
R 9024	(B,105,68)	RS1/16S472J
R 9025	(B,101,68)	RS1/16S0R0J
R 9026	(B,107,68)	RS1/16S751J
R 9030	(A,68,79)	RS1/16S470J
R 9031	(B,69,48)	RS1/16S104J
R 9032	(A,66,59)	RS1/16S104J
R 9033	(B,89,48)	RS1/16S104J
R 9036	(A,88,89)	RS1/16S221J
R 9037	(A,124,99)	RS1/16S104J
R 9039	(A,87,58)	RS1/16S104J

Mark	No.	Description	Part No.
R	9041(B,117,45)		RS1/16S104J
R	9045(A,98,46)		RS1/16S471J
R	9046(A,107,45)		RS1/16S471J
R	9047(A,99,46)		RS1/16S103J
R	9048(A,98,43)		RS1/16S103J
R	9060(B,98,68)		RS1/16S473J
R	9062(B,87,48)		RS1/16S471J
R	9064(A,54,74)		RS1/16S103J
R	9065(A,56,74)		RS1/16S103J
R	9066(A,62,72)		RS1/16S103J
R	9067(A,57,83)		RS1/16S103J
R	9081(A,120,72)		RS1/16S221J
R	9082(A,122,69)		RS1/16S274J

CAPACITORS

C	115 (B,262,98)		CKSRYB103K50
C	116 (B,267,97)		CKSRYB103K50
C	117 (A,287,109)		CCSRCH220J50
C	118 (B,285,109)		CCSRCH220J50
C	131 (A,280,87)		CEAT100M50
C	132 (A,280,80)		CEAT100M50
C	135 (A,280,114)		CEAT100M50
C	136 (A,280,106)		CEAT100M50
C	137 (A,280,101)		CEAT100M50
C	138 (A,280,93)		CEAT100M50
C	139 (A,53,95)		CEAT100M50
C	140 (A,53,100)		CEAT100M50
C	141 (A,256,82)		CKSRYB104K50
C	145 (B,256,81)		CCSRCH101J50
C	146 (B,258,81)		CCSRCH101J50
C	147 (B,253,81)		CKSRYB103K50
C	148 (B,238,67)		CKSRYB223K50
C	149 (B,235,67)		CKSRYB223K50
C	150 (B,231,67)		CKSRYB683K16
C	151 (B,49,51)		CKSRYB103K50
C	152 (B,230,62)		CKSRYB223K50
C	153 (B,234,62)		CKSRYB223K50
C	154 (B,232,62)		CKSRYB683K16
C	155 (A,226,62)		CEAT101M16
C	156 (A,229,56)		CEAT101M16
C	157 (A,236,56)		CEAT101M16
C	158 (A,232,50)		CEAT101M16
C	159 (A,241,50)		CEAT101M16
C	160 (A,234,44)		CEAT101M16
C	161 (A,241,44)		CEAT101M16
C	162 (A,248,44)		CEAT101M16
C	165 (A,240,86)		CEAT1R0M50
C	166 (A,248,86)		CEAT1R0M50
C	179 (B,294,76)		CKSRYB103K50
C	180 (A,277,16)		CKSRYB103K50
C	199 (A,281,50)		CKSRYB103K50
C	201 (A,183,85)		CEAT2R2M50
C	202 (A,184,92)		CEAT2R2M50
C	203 (A,191,85)		CCSRCH471J50
C	204 (A,191,90)		CCSRCH471J50
C	205 (A,193,85)		CCSRCH331J50
C	206 (A,194,90)		CCSRCH331J50
C	207 (B,193,85)		CCSRCH331J50
C	208 (B,193,91)		CCSRCH331J50
C	213 (A,223,84)		CEAT100M50
C	214 (A,223,90)		CEAT100M50
C	215 (B,233,84)		CKSRYB103K50
C	216 (B,231,89)		CKSRYB103K50
C	217 (A,202,85)		CKSRYB103K50
C	218 (A,202,90)		CKSRYB103K50
C	219 (A,221,87)		CKSRYB104K16
C	220 (A,210,93)		CKSRYB104K16
C	241 (A,183,70)		CEAT2R2M50
C	242 (A,183,77)		CEAT2R2M50
C	243 (A,192,69)		CCSRCH101J50
C	244 (A,192,74)		CCSRCH101J50
C	245 (A,194,69)		CCSRCH331J50
C	246 (A,194,74)		CCSRCH331J50
C	247 (B,193,69)		CCSRCH331J50
C	248 (B,193,75)		CCSRCH331J50
C	249 (A,205,69)		CEAT100M50
C	250 (A,205,75)		CEAT100M50
C	251 (A,204,65)		CKSRYB103K50
C	252 (A,211,78)		CKSRYB103K50
C	253 (B,43,89)		CKSRYB103K50
C	254 (A,58,108)	ELECT. CAPACITOR	CEAT101M25
C	255 (A,51,108)	ELECT. CAPACITOR	CEANP470M25
C	256 (A,81,105)		CKSRYB103K50
C	257 (B,216,69)		CKSRYB472K50
C	258 (B,217,75)		CKSRYB472K50
C	261 (A,183,54)		CEAT2R2M50
C	262 (A,183,62)		CEAT2R2M50
C	263 (A,192,53)		CCSRCH101J50
C	264 (A,191,59)		CKSRYB223K50
C	265 (A,194,53)		CCSRCH331J50
C	266 (A,194,59)		CKSRYB103K50
C	267 (B,193,53)		CCSRCH331J50
C	268 (B,193,60)		CKSRYB562K50
C	269 (A,205,54)		CEAT100M50
C	270 (A,205,60)		CEAT100M50
C	271 (A,203,51)		CKSRYB103K50
C	272 (A,210,64)		CKSRYB103K50
C	277 (B,216,53)		CKSRYB472K50
C	278 (B,215,61)		CKSRYB472K50
C	321 (A,153,38)		CEAT100M50
C	322 (A,153,45)		CEAT100M50
C	323 (A,145,35)		CCSRCH101J50
C	324 (A,140,47)		CCSRCH101J50
C	325 (A,136,39)	ELECT. CAPACITOR	CEAT220M50
C	326 (A,136,46)	ELECT. CAPACITOR	CEAT220M50
C	327 (A,132,42)		CKSRYB103K50
C	328 (A,132,38)		CKSRYB103K50
C	333 (A,255,93)		CEAT101M10
C	334 (A,268,81)		CEAT101M10
C	341 (A,161,56)		CEAT100M50
C	342 (A,161,63)		CEAT100M50
C	343 (A,149,51)		CCSRCH101J50
C	344 (A,150,66)		CCSRCH101J50
C	345 (A,145,56)	ELECT. CAPACITOR	CEAT220M50
C	346 (A,145,63)	ELECT. CAPACITOR	CEAT220M50
C	347 (A,140,64)		CKSRYB103K50
C	348 (A,141,58)		CKSRYB103K50
C	361 (A,161,70)		CEAT100M50
C	362 (A,169,70)		CEAT100M50
C	363 (A,139,68)		CCSRCH101J50

Mark	No.		Description	Part No.
	C	364	(A,139,84)	CKSRYB472K50
	C	365	(A,136,73) ELECT. CAPACITOR	CEAT220M50
	C	366	(A,136,80) ELECT. CAPACITOR	CEANP4R7M50
	C	367	(A,135,88)	CKSRYB103K50
	C	368	(A,147,75)	CKSRYB103K50
	C	370	(A,161,74)	CEAT4R7M50
	C	392	(B,91,95)	CKSRYB102K50
	C	1031	(A,286,57)	CCSRCH220J50
	C	1041	(B,287,55)	CCSRCH220J50
	C	5001	(B,233,10)	CKSRYB102K50
	C	5002	(B,235,10)	CKSRYB103K50
	C	5003	(B,237,10)	CKSRYB105K10
	C	5011	(A,77,16)	CEJQ100M50
	C	5013	(A,54,17)	CCSRCH270J50
	C	5014	(A,54,18)	CCSRCH270J50
	C	5015	(A,59,20)	CEJQ470M16
	C	5016	(A,54,15)	CKSRYB103K50
	C	5017	(A,73,14)	CCSRCH561J50
	C	5020	(A,69,13)	CKSRYB472K50
	C	5025	(A,166,12)	CKSRYB102K50
	C	5026	(A,169,13)	CKSRYB102K50
	C	5027	(A,177,12)	CKSRYB102K50
	C	5028	(A,179,13)	CCSRCH220J50
	C	9004	(A,121,94)	CKSRYB103K50
	C	9005	(A,116,99)	CEJQ2R2M50
	C	9006	(A,122,88)	CKSRYB105K10
	C	9007	(A,79,92) ELECT. CAPACITOR	CEAT331M6R3
	C	9008	(B,77,90)	CKSRYB103K50
	C	9011	(B,95,89)	CKSRYB473K25
	C	9014	(B,87,88)	CKSRYB473K25
	C	9015	(A,100,95)	CKSRYB102K50
	C	9018	(B,72,72)	CKSRYB104K50
	C	9081	(A,120,69)	CKSRYB103K50

B DSP ASSY

MISCELLANEOUS

	IC	501	(B,118,52) IC	TC74HCU04AF
	IC	601	(A,107,50) DA I/F TRANSCEIVER	AK4114VQ
	IC	701	(A,75,43) CODEC IC	AK4628AVQ
	IC	801	(A,42,53) DSP IC	DSPC56371AF180
	IC	802	(A,44,38) IC	TC7WU04FU
	IC	871	(B,63,53) IC	TC7WH125FU
⚠	IC	901	(B,120,30) IC	NJM2391DL1-33
⚠	IC	902	(B,94,36) REGULATOR IC	LM1117DT-ADJ
	IC	952	(B,19,48) OCTAL BUS BUFFER IC	TC74VHCT244AFTS1
	D	701	(A,79,33) DIODE	DAP202K
	D	702	(B,80,32) DIODE	DAN202K
	D	901	(B,116,38) DIODE	UDZS5R6(B)
	D	902	(B,102,33) DIODE	UDZS5R6(B)
	L	501	(B,127,29) CHIP SOLID INDUCTOR	QTL1013
	L	502	(B,130,40) CHIP SOLID INDUCTOR	QTL1013
	L	503	(A,122,62) CHIP SOLID INDUCTOR	QTL1013
	L	601	(B,103,62) CHIP SOLID INDUCTOR	QTL1013
	L	602	(A,98,49) CHIP SOLID INDUCTOR	QTL1013
	L	605	(A,117,43) CHIP SOLID INDUCTOR	QTL1013
	L	701	(B,66,43) CHIP SOLID INDUCTOR	QTL1013
	L	702	(A,94,38) CHIP SOLID INDUCTOR	QTL1013

Mark	No.		Description	Part No.
	L	801	(A,47,38) CHIP SOLID INDUCTOR	QTL1013
	L	802	(A,50,42) CHIP SOLID INDUCTOR	ATL7002
	L	803	(A,58,52) CHIP SOLID INDUCTOR	ATL7002
	L	804	(B,35,48) CHIP SOLID INDUCTOR	QTL1013
	L	871	(B,68,56) CHIP SOLID INDUCTOR	QTL1013
	L	901	(B,105,32) CHIP SOLID INDUCTOR	ATL7002
	L	902	(B,100,33) CHIP SOLID INDUCTOR	ATL7002
	L	952	(B,25,56) CHIP SOLID INDUCTOR	QTL1013
	JA	501	(A,140,35) JACK	AKB7131
	X	601	(A,106,39) CRYSTAL RESONATOR (12.288MHz)	ASS7046
	X	801	(A,36,36) CRYSTAL RESONATOR (20 MHz)	VSS1171
	CN	601	(A,100,63) 10P CONNECTOR	VKN1414
	CN	701	(A,81,28) 19P SOCKET	XKP3080
	CN	902	(A,114,28) 13P SOCKET	XKP3077
	CN	952	(A,43,28) 15P SOCKET	XKP3078

RESISTORS

	R	501	(B,129,29)	RS1/16S750J
	R	502	(B,127,42)	RS1/16S750J
	R	503	(B,123,42)	RS1/16S473J
	R	504	(A,117,62)	RS1/16S473J
	R	505	(A,115,62)	RS1/16S0R0J
	R	506	(B,123,38)	RS1/16S222J
	R	507	(A,118,62)	RS1/16S222J
	R	508	(B,121,42)	RS1/16S101J
	R	509	(B,117,62)	RS1/16S101J
	R	512	(B,121,62)	RS1/16S101J
	R	513	(B,123,62)	RS1/16S101J
	R	551	(B,63,60)	RS1/16S104J
	R	552	(B,65,60)	RS1/16S104J
	R	553	(B,67,60)	RS1/16S104J
	R	554	(B,69,60)	RS1/16S104J
	R	555	(B,71,60)	RS1/16S104J
	R	556	(B,75,60)	RS1/16S104J
	R	557	(B,77,60)	RS1/16S104J
	R	558	(B,79,60)	RS1/16S104J
	R	559	(B,81,62)	RS1/16S104J
	R	560	(B,83,62)	RS1/16S104J
	R	561	(B,85,62)	RS1/16S104J
	R	572	(A,90,54)	RS1/16S0R0J
	R	573	(B,90,54)	RS1/16S0R0J
	R	574	(B,76,56)	RS1/16S0R0J
	R	575	(B,74,56)	RS1/16S0R0J
	R	577	(B,93,61)	RS1/16S104J
	R	579	(A,96,58)	RS1/16S0R0J
	R	601	(A,110,57)	RS1/16S0R0J
	R	602	(A,109,57)	RS1/16S0R0J
	R	603	(A,107,57)	RS1/16S0R0J
	R	604	(B,111,63)	RS1/16S104J
	R	605	(B,109,63)	RS1/16S104J
	R	606	(B,107,63)	RS1/16S104J
	R	607	(A,106,57)	RS1/16S0R0J
	R	609	(A,99,57)	RS1/16S0R0J
	R	610	(B,101,62)	RS1/16S0R0J
	R	612	(A,96,47)	RS1/16S0R0J
	R	613	(A,99,52)	RS1/16S101J
	R	614	(A,97,58)	RS1/16S101J
	R	615	(A,99,47)	RS1/16S470J

Mark No.	Description	Part No.
R 616	(A,99,46)	RS1/16S101J
R 617	(A,99,44)	RS1/16S101J
R 618	(A,99,43)	RS1/16S101J
R 620	(A,99,41)	RS1/16S470J
R 622	(A,111,42)	RS1/16S0R0J
R 623	(A,114,42)	RS1/16S0R0J
R 624	(A,114,43)	RS1/16S101J
R 625	(A,114,44)	RS1/16S101J
R 626	(A,114,46)	RS1/16S101J
R 627	(A,113,40)	RS1/16S103J
R 628	(A,115,51)	RS1/16S1802F
R 629	(A,115,53)	RS1/16S0R0J
R 630	(A,115,57)	RS1/16S0R0J
R 701	(B,76,49)	RS1/16S470J
R 702	(B,72,49)	RS1/16S101J
R 703	(B,62,40)	RS1/16S0R0J
R 704	(B,68,41)	RS1/16S4R7J
R 705	(A,58,32)	RS1/16S101J
R 706	(A,61,32)	RS1/16S101J
R 707	(A,63,32)	RS1/16S101J
R 708	(A,66,32)	RS1/16S101J
R 709	(A,68,32)	RS1/16S101J
R 710	(A,71,32)	RS1/16S101J
R 711	(A,73,32)	RS1/16S101J
R 712	(A,76,32)	RS1/16S101J
R 713	(A,84,44)	RS1/16S470J
R 714	(A,84,49)	RS1/16S101J
R 715	(A,85,50)	RS1/16S101J
R 716	(A,82,51)	RS1/16S101J
R 801	(A,54,63)	RS1/16S470J
R 802	(A,45,64)	RAB4C101J
R 803	(B,50,62)	RS1/16S103J
R 804	(B,48,62)	RS1/16S103J
R 805	(B,46,62)	RS1/16S103J
R 806	(B,44,62)	RS1/16S103J
R 807	(B,42,56)	RS1/16S473J
R 808	(B,35,56)	RS1/16S472J
R 809	(B,40,56)	RS1/16S472J
R 810	(A,31,52)	RS1/16S473J
R 811	(B,30,51)	RS1/16S472J
R 812	(B,32,51)	RS1/16S101J
R 813	(A,27,49)	RS1/16S103J
R 815	(A,38,40)	RS1/16S105J
R 816	(A,35,40)	RS1/16S471J
R 817	(A,44,42)	RS1/16S101J
R 819	(B,38,49)	RS1/16S101J
R 820	(B,35,43)	RS1/16S0R0J
R 822	(B,42,44)	RS1/16S103J
R 823	(B,43,50)	RS1/16S473J
R 827	(B,51,51)	RS1/16S470J
R 832	(A,53,54)	RS1/16S470J
R 833	(A,57,57)	RS1/16S470J
R 834	(A,57,58)	RS1/16S470J
R 835	(A,57,60)	RS1/16S470J
R 836	(A,57,61)	RS1/16S470J
R 840	(A,23,49)	RS1/16S101J
R 841	(A,63,46)	RS1/16S473J
R 852	(B,53,45)	RS1/16S222J
R 871	(B,58,48)	RS1/16S470J
R 872	(B,60,48)	RS1/16S470J
R 873	(B,60,56)	RS1/16S470J
R 874	(B,58,56)	RS1/16S470J
R 904	(B,113,31)	RS1/16S104J
R 905	(B,111,33)	RS1/16S104J
R 906	(B,107,31)	RS1/16S104J
R 908	(A,121,27)	RS1/16S0R0J
R 913	(A,85,30)	RS1/16S0R0J
R 915	(B,89,37)	RS1/16S102J
R 951	(A,26,49)	RS1/16S101J
R 952	(A,25,49)	RS1/16S101J
R 953	(A,22,49)	RS1/16S101J
R 954	(B,22,39)	RS1/16S331J
R 955	(B,20,39)	RS1/16S331J
R 956	(B,18,39)	RS1/16S331J
R 957	(B,16,39)	RS1/16S331J
R 958	(A,17,44)	RS1/16S331J
R 959	(A,18,44)	RS1/16S331J
R 960	(A,19,45)	RS1/16S331J
R 961	(A,21,45)	RS1/16S331J
R 962	(A,20,31) RESISTOR ARRAY	RAB4C104J
R 967	(A,29,32)	RS1/16S104J
R 968	(A,31,32)	RS1/16S104J
R 969	(A,33,32)	RS1/16S104J
R 970	(A,37,32) RESISTOR ARRAY	RAB4C104J
R 974	(A,42,32)	RS1/16S0R0J
R 975	(A,15,52)	RS1/16S101J
R 976	(A,16,52)	RS1/16S101J
R 983	(B,15,32)	RS1/16S0R0J

CAPACITORS

C 503	(B,125,29)	CKSRYB103K50
C 504	(B,125,42)	CKSRYB103K50
C 505	(B,125,38)	CCSRCH470J50
C 506	(A,121,62)	CCSRCH470J50
C 511	(B,125,52)	CCSRCH471J50
C 512	(B,127,52)	CKSRYB105K6R3
C 513	(A,121,56)	CEVW101M16
C 605	(A,99,55)	CCSRCH471J50
C 606	(A,100,55)	CKSRYB104K16
C 607	(A,94,53)	CEVW470M6R3
C 608	(A,99,49)	CCSRCH471J50
C 609	(A,100,49)	CKSRYB104K16
C 612	(A,103,42)	CCSRCH120J50
C 613	(A,107,42)	CCSRCH120J50
C 614	(B,111,41)	CKSRYB104K16
C 617	(B,117,42)	CKSRYB102K50
C 618	(A,121,45)	CEVW470M6R3
C 619	(A,116,48)	CKSRYB104K16
C 620	(A,114,48)	CCSRCH471J50
C 621	(A,114,51)	CKSRYB474K10
C 701	(A,65,47)	CKSRYB103K50
C 702	(A,66,47)	CCSRCH471J50
C 703	(A,62,38)	CEVW101M16
C 704	(A,65,44)	CKSRYB104K16
C 705	(A,66,44)	CCSRCH101J50
C 706	(B,64,40)	CKSRYB104K16
C 707	(B,58,33)	CCSRCH471J50
C 708	(B,61,33)	CCSRCH471J50
C 709	(B,63,33)	CCSRCH471J50
C 710	(B,66,33)	CCSRCH471J50

Mark	No.	Description	Part No.
	C 711	(B,68,33)	CCSRCH471J50
	C 712	(B,71,33)	CCSRCH471J50
	C 713	(B,73,33)	CCSRCH471J50
	C 714	(B,76,33)	CCSRCH471J50
	C 715	(A,88,42)	CEVW101M16
	C 716	(A,84,41)	CKSRYB104K16
	C 717	(A,83,41)	CCSRCH471J50
	C 718	(A,85,33)	CEVW470M6R3
	C 720	(A,83,38)	CKSRYB104K16
	C 801	(A,49,63)	CCSRCH471J50
	C 802	(A,49,64)	CKSRYB104K16
	C 803	(A,42,63)	CCSRCH471J50
	C 804	(A,42,64)	CKSRYB104K16
	C 805	(A,37,63)	CCSRCH471J50
	C 806	(A,37,64)	CKSRYB104K16
	C 807	(A,32,58)	CCSRCH471J50
	C 808	(A,31,58)	CKSRYB104K16
	C 809	(A,32,55)	CCSRCH471J50
	C 810	(A,31,55)	CKSRYB104K16
	C 814	(A,32,47)	CCSRCH471J50
	C 815	(A,31,47)	CKSRYB104K16
	C 816	(A,32,40)	CCSRCH8R0D50
	C 817	(A,41,40)	CCSRCH8R0D50
	C 818	(A,46,34)	CCSRCH471J50
	C 819	(A,46,33)	CKSRYB104K16
	C 820	(A,46,31)	CKSRYB103K50
	C 821	(A,35,43)	CCSRCH471J50
	C 822	(A,35,42)	CKSRYB104K16
	C 823	(A,37,43)	CCSRCH471J50
	C 824	(A,37,42)	CKSRYB104K16
	C 825	(B,38,52)	CKSRYB103K50
	C 826	(A,44,44)	CCSRCH471J50
	C 827	(A,41,44)	CKSRYB104K16
	C 828	(A,53,48)	CCSRCH471J50
	C 829	(A,54,48)	CKSRYB104K16
	C 830	(A,53,52)	CCSRCH471J50
	C 831	(A,54,52)	CKSRYB104K16
	C 832	(A,53,57)	CCSRCH471J50
	C 833	(A,54,57)	CKSRYB104K16
	C 834	(A,52,28)	CEVW101M16
	C 835	(A,63,52)	CEVW101M16
	C 871	(B,66,52)	CCSRCH471J50
	C 872	(B,68,52)	CKSRYB104K16
	C 907	(B,114,38)	CKSRYB104K16
	C 908	(A,121,37)	CEVW101M16
	C 909	(A,96,34)	CEVW101M16
	C 916	(B,67,47)	CCSRCH471J50
	C 917	(B,69,47)	CKSRYB103K50
	C 918	(B,79,49)	CKSRYB104K16
	C 919	(B,80,49)	CCSRCH471J50
	C 954	(B,26,52)	CCSRCH471J50
	C 955	(B,28,52)	CKSRYB104K16
	C 956	(A,24,54)	CEVW100M16

C POWER PACK ASSY (XWZ4080)

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠	IC 600	(A,132,14) POWER PACK 2CH	STK412-230C
⚠	IC 601	(A,265,14) POWER PACK 2CH	STK412-230C
⚠	IC 602	(A,199,14) POWER PACK 2CH	STK412-230C
⚠	IC 610	(A,59,28) PROTECTOR(1A)	AEK7009
⚠	IC 803	(A,238,87) IC	TA7805S
⚠	IC 804	(A,282,111) REGULATOR IC	TA7809S
⚠	IC 805	(B,271,135) IC	BA178M05FP
	Q 501	(B,85,42) CHIP TRANSISTOR	2SD2704K
	Q 505	(A,111,47) TRANSISTOR	2SC2240
	Q 601	(B,93,47) CHIP TRANSISTOR	2SD2704K
	Q 602	(B,227,45) CHIP TRANSISTOR	2SD2704K
	Q 605	(A,118,40) TRANSISTOR	2SC2240
	Q 606	(A,252,40) TRANSISTOR	2SC2240
	Q 631	(B,153,42) CHIP TRANSISTOR	2SD2704K
	Q 633	(A,178,47) TRANSISTOR	2SC2240
	Q 651	(B,161,45) CHIP TRANSISTOR	2SD2704K
	Q 652	(B,219,42) CHIP TRANSISTOR	2SD2704K
	Q 655	(A,186,40) TRANSISTOR	2SC2240
	Q 656	(A,244,47) TRANSISTOR	2SC2240
	Q 696	(B,284,22) TRANSISTOR	2SC4081
	Q 697	(B,282,26) TRANSISTOR	2SC4081
	Q 698	(B,246,67) TRANSISTOR	RT1N241M
⚠	Q 701	(A,110,75) TRANSISTOR	2SC5511
⚠	Q 702	(A,96,86) TRANSISTOR	2SA2005
	Q 703	(A,155,76) TRANSISTOR	2SA1145
	Q 704	(A,166,79) TRANSISTOR	2SC2240
	Q 705	(B,245,74) CHIP TRANSISTOR	RN4903
	Q 707	(B,241,74) CHIP TRANSISTOR	RN4903
	Q 801	(B,277,141) DIGITAL TR(SC-70)	RT1P241M
	Q 802	(B,274,145) TRANSISTOR	RT1N241M
	Q 803	(B,265,140) DIGITAL TR(SC-70)	RT1P241M
	Q 804	(B,268,145) TRANSISTOR	RT1N241M
	Q 805	(B,277,146) DIGITAL TR(SC-70)	RT1P241M
	Q 806	(B,271,145) TRANSISTOR	RT1N241M
	Q 807	(B,276,53) CHIP TR(2*PNP)	RN2903
	Q 808	(B,283,56) CHIP TRANSISTOR	RN1903
	Q 809	(A,266,101) TRANSISTOR	2SD1858X
	D 601	(A,125,57) DIODE	1SS133
	D 602	(A,267,17) ZENER DIODE	MTZJ15A
	D 603	(A,119,57) DIODE	1SS133
	D 604	(A,261,21) ZENER DIODE	MTZJ15A
	D 606	(A,259,57) DIODE	1SS133
	D 608	(A,253,52) DIODE	1SS133
	D 631	(A,192,61) DIODE	1SS133
	D 632	(A,176,52) DIODE	1SS133
	D 647	(A,200,17) ZENER DIODE	MTZJ15A
	D 648	(A,196,21) ZENER DIODE	MTZJ15A
	D 651	(A,192,57) DIODE	1SS133
	D 652	(A,262,57) DIODE	1SS133
	D 653	(A,186,52) DIODE	1SS133
	D 654	(A,242,52) DIODE	1SS133
	D 681	(A,132,17) ZENER DIODE	MTZJ15A
	D 682	(A,129,22) ZENER DIODE	MTZJ15A
⚠	D 701	(A,9,88) DIODE	D5SBA20(B)
⚠	D 702	(A,9,126) DIODE	D5SBA20(B)
	D 703	(B,252,76) DIODE	1SS355
	D 711	(A,196,103) ZENER DIODE	MTZJ22D
	D 712	(A,192,103) DIODE	MTZJ6R8(B)
	D 713	(A,120,78) DIODE	1SS133
	D 752	(B,170,135) DIODE	1SS355
	D 754	(B,141,132) DIODE	1SS355
	D 758	(B,73,136) DIODE	1SS355

Mark	No.		Description	Part No.
	D	777	(A,127,57) DIODE	1SS133
	D	778	(A,108,57) DIODE	1SS133
⚠	D	801	(B,221,113) BRIDGE DIODE	S1WB(A)60SD
	D	805	(A,276,131) DIODE	1SS133
	D	806	(A,287,62) DIODE	MTZJ6R2(B)
	D	807	(A,284,67) DIODE	1SS133
	D	827	(A,262,133) DIODE	MTZJ6R2(B)
	D	828	(A,239,98) DIODE	MTZJ6R2(B)
⚠	D	829	(A,239,128) DIODE	D3SBA20(B)
	L	501	(A,97,118) COIL	ATH1004
	L	751	(A,160,108) COIL	ATH1004
	L	752	(A,173,108) COIL	ATH1004
	L	753	(A,120,107) COIL	ATH1004
	L	761	(A,130,108) COIL	ATH1004
	L	762	(A,142,108) COIL	ATH1004
	J	43	JUMPER WIRE 11P	D20PYY1120E
	KN601		(A,65,23) WRAPPING TERMINAL	VNF1084
	RY501		(A,75,132) RELAY	XSR3012
	RY751		(A,173,130) RELAY	XSR3012
	RY752		(A,141,126) RELAY	XSR3012
	RY753		(A,117,120) RELAY	XSR3012
	CN701		(A,212,134) 11PJUMPER CONNECTOR	52147-1110
	CN702		(A,201,106) 6P JUMPER CONNECTOR	52147-0610
	CN705		(A,295,40) 21P PLUG	XKM3011
	CN751		SP TERMINAL 8-P(V0)	XKE3053
	CN753		SP TERMINAL 4-P(V0)	XKE3054
	CN805		(A,317,153) 13P PLUG	XKP3066
	CN806		19P PLUG	XKP3069
	CN807		(A,317,82) 15P PLUG	XKP3067
	CN815		(A,295,79) 19P PLUG	XKM3005
	CN816		(A,295,126) 21P PLUG	XKM3011
	CN817		(A,308,38) CONNECTOR	CKS3382
		810	(A,277,90) 11P CABLE HOLDER	51048-1100

RESISTORS

	R	601	(A,96,56)	RD1/4PU222J
	R	602	(A,230,52)	RD1/4PU222J
	R	603	(B,93,52)	RS1/16S103J
	R	604	(B,226,49)	RS1/16S103J
	R	609	(A,91,35)	RD1/4PU273J
	R	610	(A,225,35)	RD1/4PU273J
	R	611	(A,90,28)	RD1/4PU821J
	R	612	(A,223,28)	RD1/4PU821J
	R	613	(A,114,21)	RD1/4PU273J
	R	614	(A,247,21)	RD1/4PU273J
	R	615	(A,123,36)	RD1/4PU331J
	R	616	(A,270,29)	RD1/4PU562J
⚠	R	617	(A,114,31) RESISTOR (0.22, 5W)	ACN7094
	R	618	(A,266,28)	RD1/4PU562J
	R	619	(A,122,52)	RD1/4PU182J
	R	620	(A,257,36)	RD1/4PU331J
	R	621	(A,124,49)	RD1/4PU821J
⚠	R	622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094
	R	623	(A,116,48)	RD1/4PU223J
	R	624	(A,257,52)	RD1/4PU182J
	R	626	(A,258,49)	RD1/4PU821J
	R	628	(A,250,48)	RD1/4PU223J
	R	630	(A,230,21)	RD1/4PU333J
	R	631	(A,148,46)	RD1/4PU222J
	R	632	(B,152,47)	RS1/16S103J
	R	635	(A,153,29)	RD1/4PU273J
	R	636	(A,149,25)	RD1/4PU821J
	R	637	(A,172,21)	RD1/4PU273J
	R	638	(A,174,36)	RD1/4PU331J
⚠	R	639	(A,173,31) RESISTOR (0.22, 5W)	ACN7094
	R	640	(A,179,57)	RD1/4PU182J
	R	641	(A,174,52)	RD1/4PU821J
	R	642	(A,169,39)	RD1/4PU223J
	R	647	(A,202,27)	RD1/4PU562J
	R	648	(A,199,27)	RD1/4PU562J
	R	651	(A,164,56)	RD1/4PU222J
	R	652	(A,215,41)	RD1/4PU222J
	R	653	(B,160,50)	RS1/16S103J
	R	654	(B,219,46)	RS1/16S103J
	R	659	(A,159,35)	RD1/4PU273J
	R	660	(A,220,29)	RD1/4PU273J
	R	661	(A,156,28)	RD1/4PU821J
	R	662	(A,216,20)	RD1/4PU821J
	R	663	(A,181,21)	RD1/4PU273J
	R	664	(A,238,21)	RD1/4PU273J
	R	665	(A,190,36)	RD1/4PU331J
	R	666	(A,240,35)	RD1/4PU331J
⚠	R	667	(A,182,31) RESISTOR (0.22, 5W)	ACN7094
⚠	R	668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094
	R	669	(A,189,52)	RD1/4PU182J
	R	670	(A,245,52)	RD1/4PU182J
	R	671	(A,192,49)	RD1/4PU821J
	R	672	(A,240,57)	RD1/4PU821J
	R	673	(A,184,48)	RD1/4PU223J
	R	674	(A,236,38)	RD1/4PU223J
	R	680	(B,297,21)	RS1/16S0R0J
	R	688	(A,135,27)	RD1/4PU562J
	R	689	(A,133,27)	RD1/4PU562J
	R	695	(A,97,22)	RD1/4PU333J
	R	696	(B,281,38)	RS1/16S103J
	R	697	(B,255,68)	RS1/16S103J
	R	698	(B,243,67)	RS1/16S333J
	R	699	(A,165,21)	RD1/4PU333J
	R	701	(A,117,78)	RD1/4PU562J
	R	702	(A,101,84)	RD1/4PU562J
	R	703	(A,151,72)	RD1/4PU203J
	R	704	(A,147,76)	RD1/4PU203J
	R	705	(A,283,85)	RD1/4PU473J
	R	706	(A,283,75)	RD1/4PU473J
	R	707	(A,135,77)	RD1/4PU184J
	R	708	(A,147,81)	RD1/4PU184J
⚠	R	709	(A,104,72) METAL OXIDE RESISTOR	RS1LMF472J
⚠	R	710	(A,89,93) METAL OXIDE RESISTOR	RS1LMF472J
⚠	R	711	(A,181,86) METAL OXIDE RESISTOR	RS2LMF242J
	R	713	(A,117,81)	RD1/4PU102J
	R	714	(B,252,68)	RS1/16S102J
	R	715	(B,250,75)	RS1/16S103J
	R	716	(B,247,75)	RS1/16S103J
	R	725	(A,276,74)	RD1/4PU103J
	R	726	(B,291,59)	RS1/16S103J
	R	727	(B,287,59)	RS1/16S103J
⚠	R	751	(A,158,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	752	(A,185,120) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	753	(A,156,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	754	(A,181,126) METAL OXIDE RESISTOR	RS1LMF4R7J

Mark	No.	Description	Part No.
⚠	R 755	(A,103,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 756	(A,101,120) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 761	(A,125,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 762	(A,155,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 763	(A,124,132) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 764	(A,149,139) METAL OXIDE RESISTOR	RS1LMF4R7J
	R 777	(A,81,41)	RD1/4PU222J
	R 778	(B,84,48)	RS1/16S103J
	R 781	(A,87,30)	RD1/4PU273J
	R 782	(A,84,22)	RD1/4PU821J
	R 783	(A,104,21)	RD1/4PU273J
	R 784	(A,111,35)	RD1/4PU331J
⚠	R 785	(A,105,31) RESISTOR (0.22, 5W)	ACN7094
	R 786	(A,111,57)	RD1/4PU182J
	R 787	(A,106,57)	RD1/4PU821J
	R 788	(A,102,38)	RD1/4PU223J
⚠	R 789	(A,82,127) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 790	(A,80,145) METAL OXIDE RESISTOR	RS1LMF4R7J
	R 806	(B,283,48)	RS1/16S103J
	R 807	(B,278,48)	RS1/16S103J
	R 808	(B,283,52)	RS1/16S102J
	R 809	(B,261,105)	RS1/16S122J
	R 810	(B,264,105)	RS1/16S271J
	R 885	(B,310,57)	RS1/16S221J
	R 886	(B,310,61)	RS1/16S221J
	R 887	(B,310,65)	RS1/16S221J
	R 888	(B,315,22)	RS1/16S221J
	R 1101	(B,273,68)	RS1/16S0R0J
	R 1102	(B,274,61)	RS1/16S0R0J
	R 1103	(B,70,136)	RS1/16S0R0J
	R 1104	(B,138,132)	RS1/16S0R0J
	R 1105	(B,168,135)	RS1/16S0R0J
	R 1106	(B,146,53)	RS1/16S0R0J
	R 1107	(B,211,58)	RS1/16S0R0J
	R 1108	(B,233,58)	RS1/16S0R0J
	R 1109	(B,285,56)	RS1/16S0R0J
	R 1110	(B,241,68)	RS1/16S0R0J

CAPACITORS

	C 517	(A,82,154) FILM CAPACITOR	CQMBA104J50
	C 603	(B,94,39)	CKSRYB331K50
	C 604	(B,227,38)	CKSRYB331K50
	C 605	(A,96,38)	CEAT4R7M50
	C 606	(A,230,38)	CEAT4R7M50
	C 607	(B,95,20)	CCSRCH470J50
	C 608	(B,230,17)	CCSRCH470J50
	C 609	(A,91,32)	CEAT101M16
	C 610	(A,225,32)	CEAT101M16
	C 611	(B,117,22)	CCSRCH470J50
	C 612	(B,250,24)	CCSRCH470J50
	C 613	(B,117,27)	CCSRCH470J50
	C 614	(B,250,28)	CCSRCH470J50
	C 615	(A,116,45)	CEANP2R2M50
	C 616	(A,250,45)	CEANP2R2M50
	C 630	(A,172,44)	CEANP2R2M50
	C 632	(B,151,33)	CKSRYB331K50
	C 633	(A,148,33)	CEAT4R7M50
	C 634	(B,155,17)	CCSRCH470J50
	C 635	(A,153,25)	CEAT101M16
	C 636	(B,175,28)	CCSRCH470J50
	C 637	(B,175,24)	CCSRCH470J50
	C 653	(B,161,38)	CKSRYB331K50
	C 654	(B,217,33)	CKSRYB331K50
	C 655	(A,164,38)	CEAT4R7M50
	C 656	(A,215,33)	CEAT4R7M50
	C 657	(B,165,17)	CCSRCH470J50
	C 658	(B,221,17)	CCSRCH470J50
	C 659	(A,158,31)	CEAT101M16
	C 660	(A,219,25)	CEAT101M16
	C 661	(B,184,23)	CCSRCH470J50
	C 662	(B,241,27)	CCSRCH470J50
	C 663	(B,184,27)	CCSRCH470J50
	C 664	(B,241,24)	CCSRCH470J50
	C 665	(A,184,45)	CEANP2R2M50
	C 666	(A,239,49)	CEANP2R2M50
	C 696	(B,281,35)	CKSRYB102K50
	C 697	(A,286,34)	CEAT221M6R3
	C 701	(A,49,80) ELECT.CAPACITOR	XCH3026
	C 702	(A,49,107) ELECT.CAPACITOR	XCH3026
	C 703	(A,43,130) ELECT.CAPACITOR	XCH3012
	C 704	(A,38,150) ELECT.CAPACITOR	XCH3012
	C 705	(A,156,81) ELECT. CAPACITOR	CEAT100M2A
	C 706	(A,143,84) ELECT. CAPACITOR	CEAT100M2A
	C 707	(A,17,99) MYLAR FILM CAPACITOR	CQMA103K2E
	C 708	(A,16,137) MYLAR FILM CAPACITOR	CQMA103K2E
	C 709	(A,257,73)	CEAT1R0M50
	C 711	(A,195,99) ELECT. CAPACITOR	CEAT101M35
	C 712	(A,189,105)	CEAT101M10
	C 751	(A,159,143) FILM CAPACITOR	CQMBA104J50
	C 752	(A,181,150) FILM CAPACITOR	CQMBA104J50
	C 755	(A,103,147) FILM CAPACITOR	CQMBA104J50
	C 761	(A,122,139) FILM CAPACITOR	CQMBA104J50
	C 762	(A,152,145) FILM CAPACITOR	CQMBA104J50
	C 778	(B,84,34)	CKSRYB331K50
	C 779	(A,81,33)	CEAT4R7M50
	C 780	(B,88,18)	CCSRCH470J50
	C 781	(A,87,27)	CEAT101M16
	C 782	(B,107,27)	CCSRCH470J50
	C 783	(B,107,24)	CCSRCH470J50
	C 784	(A,105,49)	CEANP2R2M50
	C 801	(A,248,114) ELECT. CAPACITOR	CEAT222M25
	C 802	(A,249,100) ELECT. CAPACITOR	CEAT222M25
	C 806	(A,288,55)	CEAT1R0M50
	C 807	(B,226,95)	CKSRYB103K25
	C 808	(A,245,142) ELECT. CAPACITOR	CEAT472M16
	C 809	(A,234,95)	CEAT101M10
	C 810	(A,266,133)	CEAT101M10
	C 811	(B,279,128)	CKSRYB103K25
	C 812	(B,278,109)	CKSRYB103K25
	C 813	(A,276,118)	CEAT101M16

C POWER PACK ASSY (XWZ4117)

MISCELLANEOUS

⚠	IC 600	(A,132,14) POWER PACK 2CH	STK412-230C
⚠	IC 601	(A,265,14) POWER PACK 2CH	STK412-230C
⚠	IC 602	(A,199,14) POWER PACK 2CH	STK412-230C
⚠	IC 610	(A,59,28) PROTECTOR(1A)	AEK7009
⚠	IC 701	(A,100,75) IC PROTECTOR	ICP-N10

Mark	No.	Description	Part No.
⚠	IC 702	(A,84,81) IC PROTECTOR	ICP-N10
⚠	IC 803	(A,238,87) IC	TA7805S
⚠	IC 804	(A,282,111) REGULATOR IC	TA7809S
⚠	IC 805	(B,271,135) IC	BA178M05FP
	Q 501	(B,85,42) CHIP TRANSISTOR	2SD2704K
	Q 505	(A,111,47) TRANSISTOR	2SC2240
	Q 601	(B,93,47) CHIP TRANSISTOR	2SD2704K
	Q 602	(B,227,45) CHIP TRANSISTOR	2SD2704K
	Q 605	(A,118,40) TRANSISTOR	2SC2240
	Q 606	(A,252,40) TRANSISTOR	2SC2240
	Q 631	(B,153,42) CHIP TRANSISTOR	2SD2704K
	Q 633	(A,178,47) TRANSISTOR	2SC2240
	Q 651	(B,161,45) CHIP TRANSISTOR	2SD2704K
	Q 652	(B,219,42) CHIP TRANSISTOR	2SD2704K
	Q 655	(A,186,40) TRANSISTOR	2SC2240
	Q 656	(A,244,47) TRANSISTOR	2SC2240
	Q 696	(B,284,22) TRANSISTOR	2SC4081
	Q 697	(B,282,26) TRANSISTOR	2SC4081
	Q 698	(B,246,67) TRANSISTOR	RT1N241M
⚠	Q 701	(A,110,75) TRANSISTOR	2SC5511
⚠	Q 702	(A,96,86) TRANSISTOR	2SA2005
	Q 703	(A,155,76) TRANSISTOR	2SA1145
	Q 704	(A,166,79) TRANSISTOR	2SC2240
	Q 705	(B,245,74) CHIP TRANSISTOR	RN4903
	Q 707	(B,241,74) CHIP TRANSISTOR	RN4903
	Q 801	(B,277,141) DIGITAL TR(SC-70)	RT1P241M
	Q 802	(B,274,145) TRANSISTOR	RT1N241M
	Q 803	(B,265,140) DIGITAL TR(SC-70)	RT1P241M
	Q 804	(B,268,145) TRANSISTOR	RT1N241M
	Q 805	(B,277,146) DIGITAL TR(SC-70)	RT1P241M
	Q 806	(B,271,145) TRANSISTOR	RT1N241M
	Q 807	(B,276,53) CHIP TR(2*PNP)	RN2903
	Q 808	(B,283,56) CHIP TRANSISTOR	RN1903
	Q 809	(A,266,101) TRANSISTOR	2SD1858X
	D 601	(A,125,57) DIODE	1SS133
	D 602	(A,267,17) ZENER DIODE	MTZJ15A
	D 603	(A,119,57) DIODE	1SS133
	D 604	(A,261,21) ZENER DIODE	MTZJ15A
	D 606	(A,259,57) DIODE	1SS133
	D 608	(A,253,52) DIODE	1SS133
	D 631	(A,192,61) DIODE	1SS133
	D 632	(A,176,52) DIODE	1SS133
	D 647	(A,200,17) ZENER DIODE	MTZJ15A
	D 648	(A,196,21) ZENER DIODE	MTZJ15A
	D 651	(A,192,57) DIODE	1SS133
	D 652	(A,262,57) DIODE	1SS133
	D 653	(A,186,52) DIODE	1SS133
	D 654	(A,242,52) DIODE	1SS133
	D 681	(A,132,17) ZENER DIODE	MTZJ15A
	D 682	(A,129,22) ZENER DIODE	MTZJ15A
⚠	D 701	(A,9,88) DIODE	D5SBA20(B)
⚠	D 702	(A,9,126) DIODE	D5SBA20(B)
	D 703	(B,252,76) DIODE	1SS355
	D 711	(A,196,103) ZENER DIODE	MTZJ22D
	D 712	(A,192,103) DIODE	MTZJ6R8(B)
	D 713	(A,120,78) DIODE	1SS133
	D 751	(B,168,135) DIODE	1SS355
	D 752	(B,170,135) DIODE	1SS355
	D 753	(B,138,132) DIODE	1SS355
	D 754	(B,141,132) DIODE	1SS355
	D 757	(B,70,136) DIODE	1SS355
	D 758	(B,73,136) DIODE	1SS355
	D 777	(A,127,57) DIODE	1SS133
	D 778	(A,108,57) DIODE	1SS133
⚠	D 801	(B,221,113) BRIDGE DIODE	S1WB(A)60SD
	D 805	(A,276,131) DIODE	1SS133
	D 806	(A,287,62) DIODE	MTZJ6R2(B)
	D 807	(A,284,67) DIODE	1SS133
	D 827	(A,262,133) DIODE	MTZJ6R2(B)
	D 828	(A,239,98) DIODE	MTZJ6R2(B)
⚠	D 829	(A,239,128) DIODE	D3SBA20(B)
	L 501	(A,97,118) COIL	ATH1004
	L 751	(A,160,108) COIL	ATH1004
	L 752	(A,173,108) COIL	ATH1004
	L 753	(A,120,107) COIL	ATH1004
	L 761	(A,130,108) COIL	ATH1004
	L 762	(A,142,108) COIL	ATH1004
	J 43	JUMPER WIRE 11P	D20PYY1120E
	KN601	(A,65,23) WRAPPING TERMINAL	VNF1084
	RY501	(A,75,132) RELAY	XSR3012
	RY751	(A,173,130) RELAY	XSR3012
	RY752	(A,141,126) RELAY	XSR3012
	RY753	(A,117,120) RELAY	XSR3012
	CN701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110
	CN702	(A,201,106) 6P JUMPER CONNECTOR	52147-0610
	CN705	(A,295,40) 21P PLUG	XKM3011
	CN751	SP TERMINAL 8-P(V0)	XKE3055
	CN753	SP TERMINAL 4-P(V0)	XKE3056
	CN805	(A,317,153) 13P PLUG	XKP3066
	CN806	19P PLUG	XKP3069
	CN807	(A,317,82) 15P PLUG	XKP3067
	CN815	(A,295,79) 19P PLUG	XKM3005
	CN816	(A,295,126) 21P PLUG	XKM3011
	CN817	(A,308,38) CONNECTOR	CKS3382
	810	(A,277,90) 11P CABLE HOLDER	51048-1100

RESISTORS

	R 601	(A,96,56)	RD1/4PU222J
	R 602	(A,230,52)	RD1/4PU222J
	R 603	(B,93,52)	RS1/16S103J
	R 604	(B,226,49)	RS1/16S103J
	R 609	(A,91,35)	RD1/4PU273J
	R 610	(A,225,35)	RD1/4PU273J
	R 611	(A,90,28)	RD1/4PU821J
	R 612	(A,223,28)	RD1/4PU821J
	R 613	(A,114,21)	RD1/4PU273J
	R 614	(A,247,21)	RD1/4PU273J
	R 615	(A,123,36)	RD1/4PU331J
	R 616	(A,270,29)	RD1/4PU562J
⚠	R 617	(A,114,31) RESISTOR (0.22, 5W)	ACN7094
	R 618	(A,266,28)	RD1/4PU562J
	R 619	(A,122,52)	RD1/4PU182J
	R 620	(A,257,36)	RD1/4PU331J
	R 621	(A,124,49)	RD1/4PU821J
⚠	R 622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094
	R 623	(A,116,48)	RD1/4PU223J
	R 624	(A,257,52)	RD1/4PU182J
	R 626	(A,258,49)	RD1/4PU821J
	R 628	(A,250,48)	RD1/4PU223J
	R 630	(A,230,21)	RD1/4PU333J
	R 631	(A,148,46)	RD1/4PU222J

Mark	No.	Description	Part No.
	R 632	(B,152,47)	RS1/16S103J
	R 635	(A,153,29)	RD1/4PU273J
	R 636	(A,149,25)	RD1/4PU821J
	R 637	(A,172,21)	RD1/4PU273J
	R 638	(A,174,36)	RD1/4PU331J
⚠	R 639	(A,173,31) RESISTOR (0.22, 5W)	ACN7094
	R 640	(A,179,57)	RD1/4PU182J
	R 641	(A,174,52)	RD1/4PU821J
	R 642	(A,169,39)	RD1/4PU223J
	R 647	(A,202,27)	RD1/4PU562J
	R 648	(A,199,27)	RD1/4PU562J
	R 651	(A,164,56)	RD1/4PU222J
	R 652	(A,215,41)	RD1/4PU222J
	R 653	(B,160,50)	RS1/16S103J
	R 654	(B,219,46)	RS1/16S103J
	R 659	(A,159,35)	RD1/4PU273J
	R 660	(A,220,29)	RD1/4PU273J
	R 661	(A,156,28)	RD1/4PU821J
	R 662	(A,216,20)	RD1/4PU821J
	R 663	(A,181,21)	RD1/4PU273J
	R 664	(A,238,21)	RD1/4PU273J
	R 665	(A,190,36)	RD1/4PU331J
	R 666	(A,240,35)	RD1/4PU331J
⚠	R 667	(A,182,31) RESISTOR (0.22, 5W)	ACN7094
⚠	R 668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094
	R 669	(A,189,52)	RD1/4PU182J
	R 670	(A,245,52)	RD1/4PU182J
	R 671	(A,192,49)	RD1/4PU821J
	R 672	(A,240,57)	RD1/4PU821J
	R 673	(A,184,48)	RD1/4PU223J
	R 674	(A,236,38)	RD1/4PU223J
	R 680	(B,297,21)	RS1/16S0R0J
	R 688	(A,135,27)	RD1/4PU562J
	R 689	(A,133,27)	RD1/4PU562J
	R 695	(A,97,22)	RD1/4PU333J
	R 696	(B,281,38)	RS1/16S103J
	R 697	(B,255,68)	RS1/16S103J
	R 698	(B,243,67)	RS1/16S333J
	R 699	(A,165,21)	RD1/4PU333J
	R 701	(A,117,78)	RD1/4PU682J
	R 702	(A,101,84)	RD1/4PU682J
	R 703	(A,151,72)	RD1/4PU683J
	R 704	(A,147,76)	RD1/4PU683J
	R 705	(A,283,85)	RD1/4PU473J
	R 706	(A,283,75)	RD1/4PU473J
	R 707	(A,135,77)	RD1/4PU124J
	R 708	(A,147,81)	RD1/4PU124J
⚠	R 711	(A,181,86) METAL OXIDE RESISTOR	RS2LMF222J
	R 713	(A,117,81)	RD1/4PU102J
	R 714	(B,252,68)	RS1/16S102J
	R 715	(B,250,75)	RS1/16S103J
	R 716	(B,247,75)	RS1/16S103J
	R 725	(A,276,74)	RD1/4PU103J
	R 726	(B,291,59)	RS1/16S103J
	R 727	(B,287,59)	RS1/16S103J
⚠	R 751	(A,158,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 752	(A,185,120) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 753	(A,156,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 754	(A,181,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 755	(A,103,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 756	(A,101,120) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 761	(A,125,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 762	(A,155,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 763	(A,124,132) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R 764	(A,149,139) METAL OXIDE RESISTOR	RS1LMF4R7J
	R 777	(A,81,41)	RD1/4PU222J
	R 778	(B,84,48)	RS1/16S103J
	R 781	(A,87,30)	RD1/4PU273J
	R 782	(A,84,22)	RD1/4PU821J
	R 783	(A,104,21)	RD1/4PU273J
	R 784	(A,111,35)	RD1/4PU331J
⚠	R 785	(A,105,31) RESISTOR (0.22, 5W)	ACN7094
	R 786	(A,111,57)	RD1/4PU182J
	R 787	(A,106,57)	RD1/4PU821J
	R 788	(A,102,38)	RD1/4PU223J
	R 789	(A,82,127) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R 790	(A,80,145) METAL OXIDE RESISTOR	RS1LMF4R7J
	R 806	(B,283,48)	RS1/16S103J
	R 807	(B,278,48)	RS1/16S103J
	R 808	(B,283,52)	RS1/16S102J
	R 809	(B,261,105)	RS1/16S122J
	R 810	(B,264,105)	RS1/16S271J
	R 885	(B,310,57)	RS1/16S221J
	R 886	(B,310,61)	RS1/16S221J
	R 887	(B,310,65)	RS1/16S221J
	R 888	(B,315,22)	RS1/16S221J
	R 1101	(B,273,68)	RS1/16S0R0J
	R 1102	(B,274,61)	RS1/16S0R0J
	R 1106	(B,146,53)	RS1/16S0R0J
	R 1107	(B,211,58)	RS1/16S0R0J
	R 1108	(B,233,58)	RS1/16S0R0J
	R 1109	(B,285,56)	RS1/16S0R0J
	R 1110	(B,241,68)	RS1/16S0R0J

CAPACITORS

	C 517	(A,82,154) FILM CAPACITOR	CQMBA224J50
	C 521	(A,120,164) FILM CAPACITOR	CQMBA123J50
	C 603	(B,94,39)	CKSRYB331K50
	C 604	(B,227,38)	CKSRYB331K50
	C 605	(A,96,38)	CEAT4R7M50
	C 606	(A,230,38)	CEAT4R7M50
	C 607	(B,95,20)	CCSRCH470J50
	C 608	(B,230,17)	CCSRCH470J50
	C 609	(A,91,32)	CEAT101M16
	C 610	(A,225,32)	CEAT101M16
	C 611	(B,117,22)	CCSRCH470J50
	C 612	(B,250,24)	CCSRCH470J50
	C 613	(B,117,27)	CCSRCH470J50
	C 614	(B,250,28)	CCSRCH470J50
	C 615	(A,116,45)	CEANP2R2M50
	C 616	(A,250,45)	CEANP2R2M50
	C 630	(A,172,44)	CEANP2R2M50
	C 632	(B,151,33)	CKSRYB331K50
	C 633	(A,148,33)	CEAT4R7M50
	C 634	(B,155,17)	CCSRCH470J50
	C 635	(A,153,25)	CEAT101M16
	C 636	(B,175,28)	CCSRCH470J50
	C 637	(B,175,24)	CCSRCH470J50
	C 653	(B,161,38)	CKSRYB331K50
	C 654	(B,217,33)	CKSRYB331K50

Mark	No.	Description	Part No.
	C 655	(A,164,38)	CEAT4R7M50
	C 656	(A,215,33)	CEAT4R7M50
A	C 657	(B,165,17)	CCSRCH470J50
	C 658	(B,221,17)	CCSRCH470J50
	C 659	(A,158,31)	CEAT101M16
	C 660	(A,219,25)	CEAT101M16
	C 661	(B,184,23)	CCSRCH470J50
	C 662	(B,241,27)	CCSRCH470J50
	C 663	(B,184,27)	CCSRCH470J50
	C 664	(B,241,24)	CCSRCH470J50
	C 665	(A,184,45)	CEANP2R2M50
	C 666	(A,239,49)	CEANP2R2M50
	C 696	(B,281,35)	CKSRYB102K50
B	C 697	(A,286,34)	CEAT221M6R3
	C 701	(A,49,80) ELECT.CAPACITOR	XCH3026
	C 702	(A,49,107) ELECT.CAPACITOR	XCH3026
	C 703	(A,43,130) ELECT.CAPACITOR	XCH3012
	C 704	(A,38,150) ELECT.CAPACITOR	XCH3012
	C 705	(A,156,81) ELECT. CAPACITOR	CEAT100M2A
	C 706	(A,143,84) ELECT. CAPACITOR	CEAT100M2A
	C 707	(A,17,99) MYLAR FILM CAPACITOR	CQMA103K2E
	C 708	(A,16,137) MYLAR FILM CAPACITOR	CQMA103K2E
	C 709	(A,257,73)	CEAT1R0M50
	C 711	(A,195,99) ELECT. CAPACITOR	CEAT101M35
C	C 712	(A,189,105)	CEAT101M10
	C 751	(A,159,143) FILM CAPACITOR	CQMBA224J50
	C 752	(A,181,150) FILM CAPACITOR	CQMBA224J50
	C 753	(A,157,155) FILM CAPACITOR	CQMBA224J50
	C 754	(A,181,158) FILM CAPACITOR	CQMBA224J50
	C 755	(A,103,147) FILM CAPACITOR	CQMBA224J50
	C 756	(A,96,151) FILM CAPACITOR	CQMBA224J50
	C 757	(A,157,164) FILM CAPACITOR	CQMBA123J50
	C 758	(A,177,164) FILM CAPACITOR	CQMBA123J50
	C 759	(A,101,164) FILM CAPACITOR	CQMBA123J50
	C 761	(A,122,139) FILM CAPACITOR	CQMBA224J50
D			
	C 762	(A,152,145) FILM CAPACITOR	CQMBA224J50
	C 763	(A,122,146) FILM CAPACITOR	CQMBA224J50
	C 764	(A,150,152) FILM CAPACITOR	CQMBA224J50
	C 766	(A,82,164) FILM CAPACITOR	CQMBA123J50
	C 773	(A,138,164) FILM CAPACITOR	CQMBA123J50
	C 778	(B,84,34)	CKSRYB331K50
	C 779	(A,81,33)	CEAT4R7M50
	C 780	(B,88,18)	CCSRCH470J50
	C 781	(A,87,27)	CEAT101M16
	C 782	(B,107,27)	CCSRCH470J50
E			
	C 783	(B,107,24)	CCSRCH470J50
	C 784	(A,105,49)	CEANP2R2M50
	C 785	(A,89,146) FILM CAPACITOR	CQMBA224J50
	C 801	(A,248,114) ELECT. CAPACITOR	CEAT222M25
	C 802	(A,249,100) ELECT. CAPACITOR	CEAT222M25
	C 806	(A,288,55)	CEAT1R0M50
	C 807	(B,226,95)	CKSRYB103K25
	C 808	(A,245,142) ELECT. CAPACITOR	CEAT472M16
	C 809	(A,234,95)	CEAT101M10
	C 810	(A,266,133)	CEAT101M10
	C 811	(B,279,128)	CKSRYB103K25
F	C 812	(B,278,109)	CKSRYB103K25
	C 813	(A,276,118)	CEAT101M16

Mark	No.	Description	Part No.

D TRANS2 ASSY

MISCELLANEOUS

⚠	IC 853	(A,32,204) PROTECTOR(4A)	AEK7018
	J 21	JUMPER WIRE 11P	D20PYY1130E
	CN1201	(A,35,183) 4P JUMPER CONNECTOR	52147-0410
	851	(A,49,207) 11P CABLE HOLDER	51048-1100

E TRANS3 ASSY

TRANS3 ASSY has no service part.

G HEAD PHONE ASSY

MISCELLANEOUS

	Q 1551	(B,78,211) CHIP TRANSISTOR	2SD2704K
	Q 1552	(B,102,219) CHIP TRANSISTOR	2SD2704K
	J 47	JUMPER WIRE	D20PYY0640E
	JA 1551	(A,117,233) HEADPHONE JACK	RKB1014
	KN1551	(A,69,231) WRAPPING TERMINAL	VNF1084
	1551	(A,59,220) 6P CABLE HOLDER	51048-0600

RESISTORS

⚠	R 1551	(A,84,202) METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 1552	(A,78,203) METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 1553	(A,108,221) METAL OXIDE RESISTOR	RS1LMF151J
⚠	R 1554	(A,93,216) METAL OXIDE RESISTOR	RS1LMF151J
	R 1555	(B,100,216)	RS1/16S472J
	R 1556	(B,81,210)	RS1/16S472J
	R 1557	(B,87,228)	RS1/16S102J

CAPACITORS

C 1551	(B,94,226)	CKSRYB223K50
C 1552	(B,83,210)	CKSRYB223K50
C 1553	(B,110,224)	CKSRYB103K50
C 1554	(B,110,226)	CCSRCH471J50
C 1555	(B,110,229)	CKSRYB104K16
C 1556	(B,112,239)	CKSRYB103K50
C 1557	(B,109,239)	CCSRCH471J50
C 1558	(B,107,239)	CKSRYB104K16
C 1561	(A,69,205) ELECT. CAPACITOR	CEANP470M50
C 1562	(A,71,223) ELECT. CAPACITOR	CEANP470M50

K FRONT DISPLAY

MISCELLANEOUS

IC 401	(B,121,181) DISPLAY U-COM	PE5550A
IC 402	(A,223,169) REMOTE RECEIVER UNIT	GP1UM27XK0VF
Q 442	(B,238,190) TRANSISTOR	RT1N241M
Q 484	(B,217,189) TRANSISTOR	2SA1576A
D 401	(B,239,163) DIODE	DAN202K
D 403	(B,226,189) DIODE	1SS355
L 401	(A,242,159) RADIAL INDUCTOR	LFCA2R2J
V 401	(A,189,200) FL TUBE	XAV3033
S 451	(A,234,139) SWITCH	VSG1024
S 452	(A,213,136) SWITCH	VSG1024
S 453	(A,187,134) SWITCH	VSG1024
S 454	(A,70,134) SWITCH	VSG1024
S 455	(A,46,134) SWITCH	VSG1024
S 456	(A,23,134) SWITCH	VSG1024
S 458	(A,13,112) SWITCH	VSG1024
S 459	(A,114,136) SWITCH	VSG1024

Mark	No.	Description	Part No.
S	460	(A,91,136) SWITCH	VSG1024
S	461	(A,57,112) SWITCH	VSG1024
S	462	(A,42,112) SWITCH	VSG1024
S	463	(A,27,112) SWITCH	VSG1024
S	464	(A,164,134) SWITCH	VSG1024
S	465	(A,140,134) SWITCH	VSG1024
S	466	(A,86,90) SWITCH	VSG1024
S	467	(A,72,90) SWITCH	VSG1024
S	468	(A,57,90) SWITCH	VSG1024
S	469	(A,42,90) SWITCH	VSG1024
S	470	(A,27,90) SWITCH	VSG1024
S	471	(A,13,90) SWITCH	VSG1024
X	401	(A,149,165) CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN	401	(A,246,165) 17P CONNECTOR	52044-1745
	471	(A,35,176) CABLE HOLDER(3P)	51063-0305
	404	(A,197,127) CABLE HOLDER(7P)	51063-0705
	402	FL HOLDER(FE)	VNF1096

RESISTORS

R	401	(B,144,169)	RS1/16S105J
R	402	(B,223,189)	RS1/16S104J
R	403	(B,220,189)	RS1/16S104J
R	405	(B,228,155)	RS1/16S102J
R	406	(B,226,155)	RS1/16S103J
R	407	(B,78,176)	RS1/16S473J
R	408	(B,80,176)	RS1/16S473J
R	409	(B,75,176)	RS1/16S473J
R	410	(B,73,176)	RS1/16S473J
R	411	(B,229,189)	RS1/16S473J
R	412	(B,234,187)	RS1/16S221J
R	413	(B,234,184)	RS1/16S221J
R	414	(B,234,182)	RS1/16S221J
R	415	(B,234,180)	RS1/16S221J
R	416	(B,234,178)	RS1/16S221J
R	417	(B,219,182)	RS1/16S101J
R	422	(B,157,169)	RS1/16S104J
R	423	(B,131,167)	RS1/16S104J
R	424	(B,83,176)	RS1/16S104J
R	425	(B,213,182)	RS1/16S104J
R	430	(B,234,175)	RS1/16S0R0J
R	451	(B,236,144)	RS1/16S472J
R	452	(B,234,144)	RS1/16S681J
R	453	(B,187,147)	RS1/16S821J
R	454	(B,166,153)	RS1/16S122J
R	455	(A,45,146)	RD1/4PU681J
R	456	(A,35,144)	RD1/4PU821J
R	457	(A,16,139)	RD1/4PU122J
R	459	(A,109,134)	RD1/4PU472J
R	460	(A,101,135)	RD1/4PU681J
R	461	(B,52,117)	RS1/16S821J
R	462	(B,49,117)	RS1/16S122J
R	463	(B,34,117)	RS1/16S162J
R	464	(B,20,117)	RS1/16S272J
R	465	(A,161,128)	RD1/4PU472J
R	466	(A,151,128)	RD1/4PU681J
R	467	(A,131,128)	RD1/4PU821J
R	468	(B,79,91)	RS1/16S122J
R	469	(B,64,91)	RS1/16S162J
R	470	(B,50,92)	RS1/16S272J
R	471	(B,34,91)	RS1/16S512J
R	472	(B,86,176)	RS1/16S472J
R	473	(B,19,91)	RS1/16S133J
R	481	(B,169,204)	RS1/16S473J
R	482	(B,167,204)	RS1/16S473J
R	483	(B,165,204)	RS1/16S473J
R	484	(B,163,204)	RS1/16S473J
R	485	(B,161,204)	RS1/16S473J
R	486	(B,159,204)	RS1/16S473J
R	487	(B,157,204)	RS1/16S473J
R	488	(B,155,204)	RS1/16S473J
R	489	(B,153,204)	RS1/16S473J
R	490	(B,151,204)	RS1/16S473J
R	492	(B,121,204)	RS1/16S104J
R	493	(B,119,204)	RS1/16S104J
R	494	(B,117,204)	RS1/16S104J
R	495	(B,115,204)	RS1/16S104J
R	496	(B,113,204)	RS1/16S104J
R	497	(B,111,204)	RS1/16S104J
R	498	(B,109,204)	RS1/16S104J
R	499	(B,107,204)	RS1/16S104J
R	500	(B,105,204)	RS1/16S104J
R	517	(B,149,204)	RS1/16S473J
R	518	(B,147,204)	RS1/16S473J
R	519	(B,145,204)	RS1/16S473J
R	520	(B,103,204)	RS1/16S104J
R	521	(B,101,204)	RS1/16S104J
R	522	(B,99,204)	RS1/16S104J
R	523	(B,97,204)	RS1/16S104J
R	524	(B,95,204)	RS1/16S104J
R	525	(B,93,204)	RS1/16S104J
R	526	(B,91,204)	RS1/16S104J
R	527	(B,89,204)	RS1/16S104J
R	528	(B,87,204)	RS1/16S104J
R	529	(B,85,204)	RS1/16S104J
R	530	(B,83,204)	RS1/16S104J
R	531	(B,81,204)	RS1/16S104J
R	532	(B,79,204)	RS1/16S104J
R	533	(B,77,204)	RS1/16S104J
R	534	(B,75,204)	RS1/16S104J

CAPACITORS

C	401	(B,247,155)	CKSRYB103K50
C	402	(B,247,153)	CKSRYB103K50
C	403	(A,234,168) ELECTR.CAPACITOR	CEAT101M6R3
C	410	(B,49,186)	CKSRYB103K50
C	411	(B,51,186)	CKSRYB103K50
C	412	(A,42,178)	CEAT470M50
C	418	(B,141,179)	CKSRYB104K16
C	419	(B,103,182)	CKSRYB103K50
C	420	(A,39,185) ELECT. CAPACITOR	CEAT101M35
C	421	(B,160,169)	CKSRYB104K16
C	441	(B,223,176)	CKSRYB103K50
C	442	(A,239,146)	CEAL470M10
C	451	(B,125,166)	CKSRYB102K50
C	452	(B,103,164)	CKSRYB102K50
C	453	(B,122,166)	CKSRYB102K50
C	454	(B,100,164)	CKSRYB102K50
C	481	(B,140,191)	CCSRCH471J50
C	482	(B,126,201)	CCSRCH221J50
C	483	(B,126,199)	CCSRCH221J50

Mark	No.		Description	Part No.
	C	487	(B,83,163)	CKSRYB102K50
	C	488	(B,79,163)	CKSRYB102K50
	C	489	(B,75,163)	CKSRYB102K50
	C	490	(A,241,34)	CKSRYB102K50

L R.ENCODER ASSY

MISCELLANEOUS

	S	457	(A,300,183) SWITCH	VSG1024
	S	512	(A,288,223) ROTARY ENCODER (JOG)	XSX3008
	S	513	(A,288,152) ROTARY ENCODER	XSX3005
	S	514	(A,257,216) SWITCH	VSG1024
	S	515	(A,270,183) SWITCH	VSG1024
	S	516	(A,285,183) SWITCH	VSG1024
		511	(A,257,172) CABLE HOLDER(7P)	51063-0705

RESISTORS

	R	513	(B,270,190)	RS1/16S162J
	R	514	(B,280,185)	RS1/16S272J
	R	515	(B,295,185)	RS1/16S512J

M POWER KEY ASSY

MISCELLANEOUS

	S	501	(A,12,174) SWITCH	VSG1024
	S	502	(A,20,221) SWITCH	VSG1024
	S	503	(A,32,218) SWITCH	VSG1024
	S	504	(A,47,218) SWITCH	VSG1024
		501	(A,47,210) CABLE HOLDER(3P)	51063-0305

RESISTORS

	R	502	(B,7,171)	RS1/16S162J
	R	503	(A,15,228)	RD1/4PU272J
	R	504	(A,30,228)	RD1/4PU512J

O TRANS4 ASSY

MISCELLANEOUS

⚠	IC	891	(A,104,223) PROTECTOR(800MA)	AEK7008
⚠	IC	892	(A,77,232) PROTECTOR(800MA)	AEK7008
⚠	D	891	(B,91,226) BRIDGE DIODE	S1WB(A)60SD
	J	22	JUMPER WIRE	D20PYY0330E
		891	(A,70,221) 3P CABLE HOLDER	51048-0300

CAPACITORS

	C	891	(A,97,218) ELECT. CAPACITOR	CEAT471M35
	C	892	(A,86,218) ELECT. CAPACITOR	CEAT471M35

P REGULATOR ASSY

MISCELLANEOUS

⚠	IC	801	(A,161,89) REGULATOR IC	TA7812S
⚠	IC	802	(A,178,89) REGULATOR IC	TA79012S
⚠	IC	803	(A,196,89) IC	TA7805S
	D	810	(A,186,95) ZENER DIODE	MTZJ6.2B
	CN	800	(A,194,113) 11PJUMPER CONNECTOR	52147-1110

RESISTORS

⚠	R	801	(A,152,97) METAL OXIDE RESISTOR	RS3LMF331J

CAPACITORS

	C	803	(B,164,98)	CKSRYB103K25
	C	804	(B,180,98)	CKSRYB103K25
	C	805	(A,152,103)	CEJQ101M16
	C	806	(A,173,100)	CEAT101M16
	C	818	(B,196,95)	CKSRYB103K25
	C	819	(A,190,95)	CEAT101M10

R DIG. INPUT ASSY

MISCELLANEOUS

	F	1901	(B,214,228) INDUCTOR	CTF1295
	JA	1900	(A,206,201) OPT. LINK IN	GP1FAV51RKBF
	KN	1902	(A,249,206) SCREW PLATE	VNE1948
	CN	1903	(A,229,230) CONNECTOR	VKN1186

RESISTORS

	R	1900	(B,211,215)	RS1/16S101J

CAPACITORS

	C	1900	(B,205,215)	CKSRYB104K25
	C	1903	(B,211,230)	CKSRYB103K50
	C	1904	(A,208,228)	CEAL101M10
	C	1905	(B,233,232)	CKSRYB104K25
	C	1906	(B,235,232)	CKSRYB103K50
	C	1907	(B,237,232)	CCSRCH101J50
	C	1908	(B,239,232)	CKSRYB102K50

T FRONT INPUT ASSY

MISCELLANEOUS

	JA	971	(A,100,96) JACK	DKN1124
	KN	971	(A,131,120) WRAPPING TERMINAL	VNF1084
	CN	971	(A,143,98) 3P CABLE HOLDER	51048-0300
	J	29	(A,143,98) 3P CABLE	D20PYY0323E

RESISTORS

	R	971	(B,130,91)	RS1/16S331J
	R	972	(B,130,104)	RS1/16S331J

CAPACITORS

	C	971	(B,127,91)	CCSRCH101J50
	C	972	(B,127,104)	CCSRCH101J50
	C	973	(B,132,91)	CCSRCH101J50
	C	974	(B,132,104)	CCSRCH101J50
	C	975	(B,106,104)	CCSRCH471J50
	C	976	(B,108,104)	CKSRYB103K50
	C	977	(B,111,104)	CKSRYB104K25

U PRIMARY ASSY

MISCELLANEOUS

⚠	IC	51	(A,234,14) REGULATOR IC	TA78057S
	Q	51	(B,267,14) DIGITAL TR(SC-70)	RT1N431M
⚠	D	51	(B,298,20) BRIDGE DIODE	DF06SA
	D	55	(A,304,21) DIODE	1SR139-400
	D	56	(A,271,21) DIODE	1SS133
	D	58	(A,314,13) ZENER DIODE	MTZJ5.1B
	H	51	(A,231,34) FUSE CLIP	AKR7001
	H	52	(A,250,34) FUSE CLIP	AKR7001
	J	52	JUMPER WIRE	D20PYY0410E
	KN	51	(A,318,25) WRAPPING TERMINAL	VNF1084
	KN	3001	(A,223,117) SCREW PLATE	VNE1948
⚠	RY	51	(A,271,57) RELAY	XSR3013
⚠	T	51	(A,288,56) STANDBY TRANSFORMER	ATT7043

Mark	No.		Description	Part No.
⚠	CN51	(A,236,47)	AC CODE SOCKET	RKP1751
	55	(A,317,9)	4P CABLE HOLDER	51048-0400

RESISTORS

⚠	R 51	(A,318,37)	RESISTOR(2.2M, 1/2W)	RCN1080
	R 52	(A,275,11)		RD1/2PM270J
	R 53	(A,307,12)		RD1/4PU332J
	R 54	(A,319,16)		RD1/4PU103J

CAPACITORS

⚠	C 51	(A,261,64)	FILM CAPACITOR	ACE7013
⚠	C 52	(A,265,57)	SAFETY CAPACITOR	XCG3009
	C 53	(A,291,21)	ELECT. CAPACITOR	CEAT102M16
	C 54	(A,300,11)		CEAT470M25
	C 55	(A,307,21)		CKPUYF103Z25
	C 56	(A,311,21)		CKPUYF103Z25
	C 57	(A,314,21)		CKPUYF103Z25

V TRANS1 ASSY

TRANS1 ASSY has no service part.

Y FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.

6. ADJUSTMENT

There is no information to be shown in this chapter.

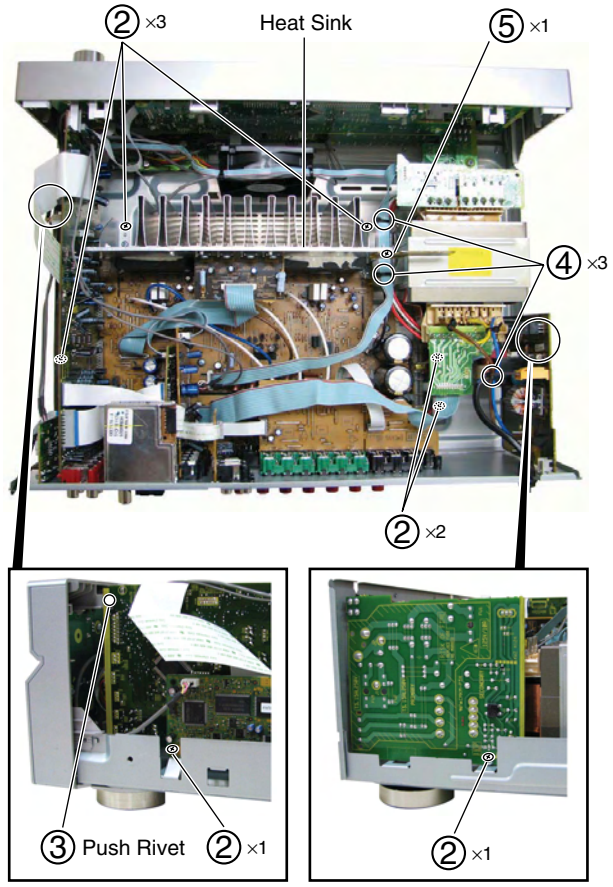
7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

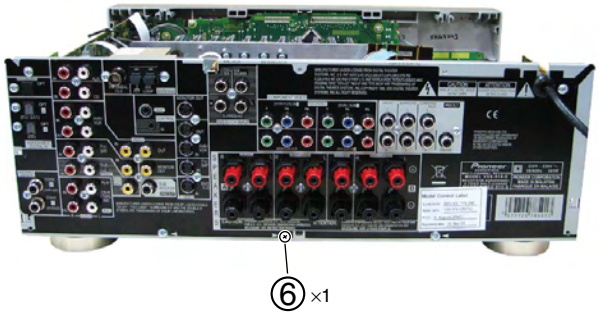
Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

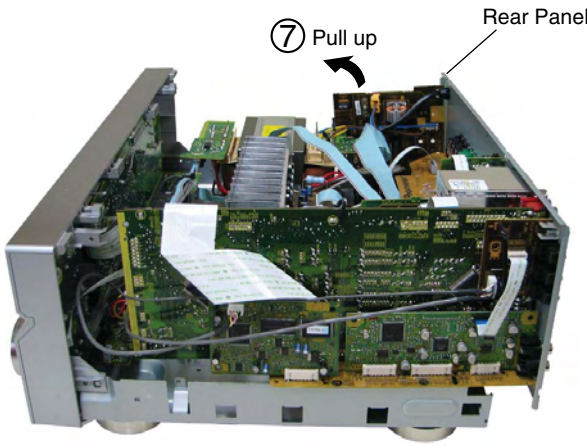
① Remove the top cover (five screws).



④ Cut 3 cable ties.

⑤ Remove PCB holder(one screw).



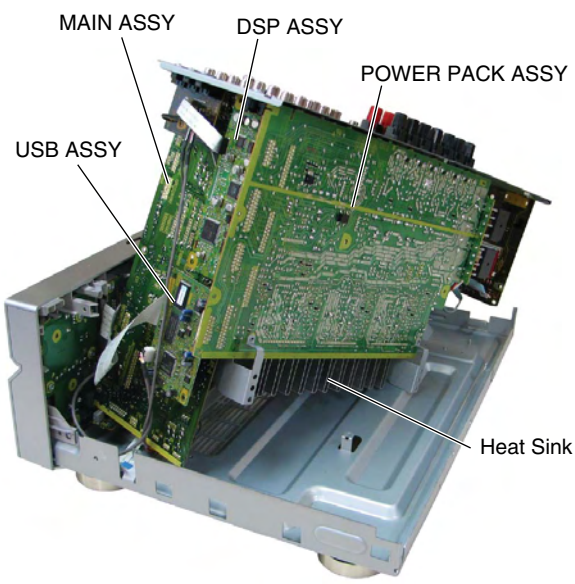


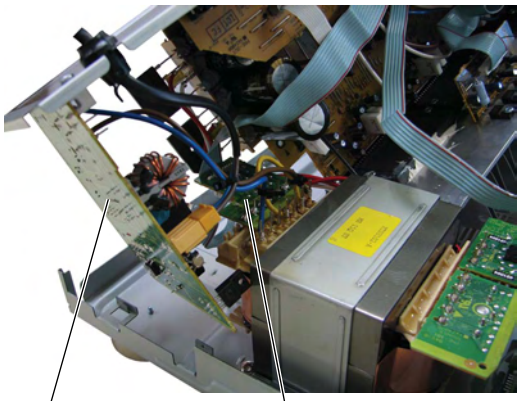
Note : The unit does not operate when the screws of Speaker Terminal are taken off from Rear Panel.

Heat-sink caution when disassembling : The Heat-sink becomes hot; please take care.

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

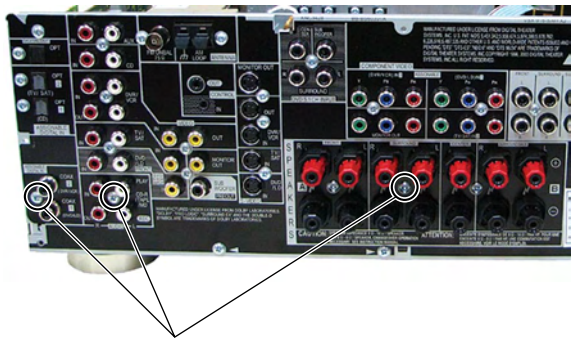
⑧ Diagnosis





Be careful that no parts on the Primary Assy are touching the chassis.

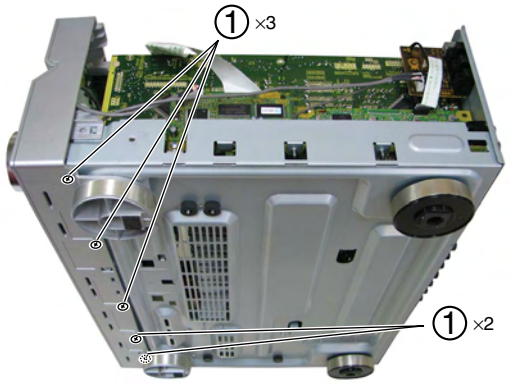
When lifting up the Amplifier Assy, be careful not to damage this TRANS Assy.

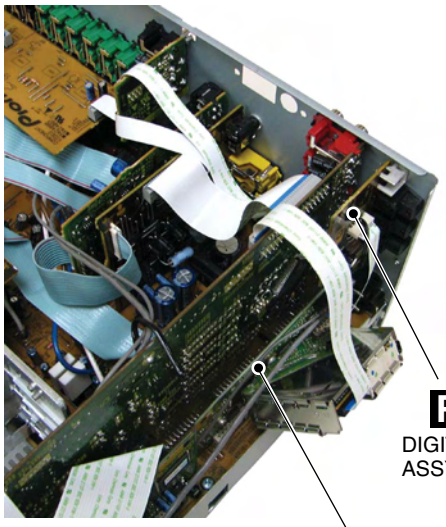


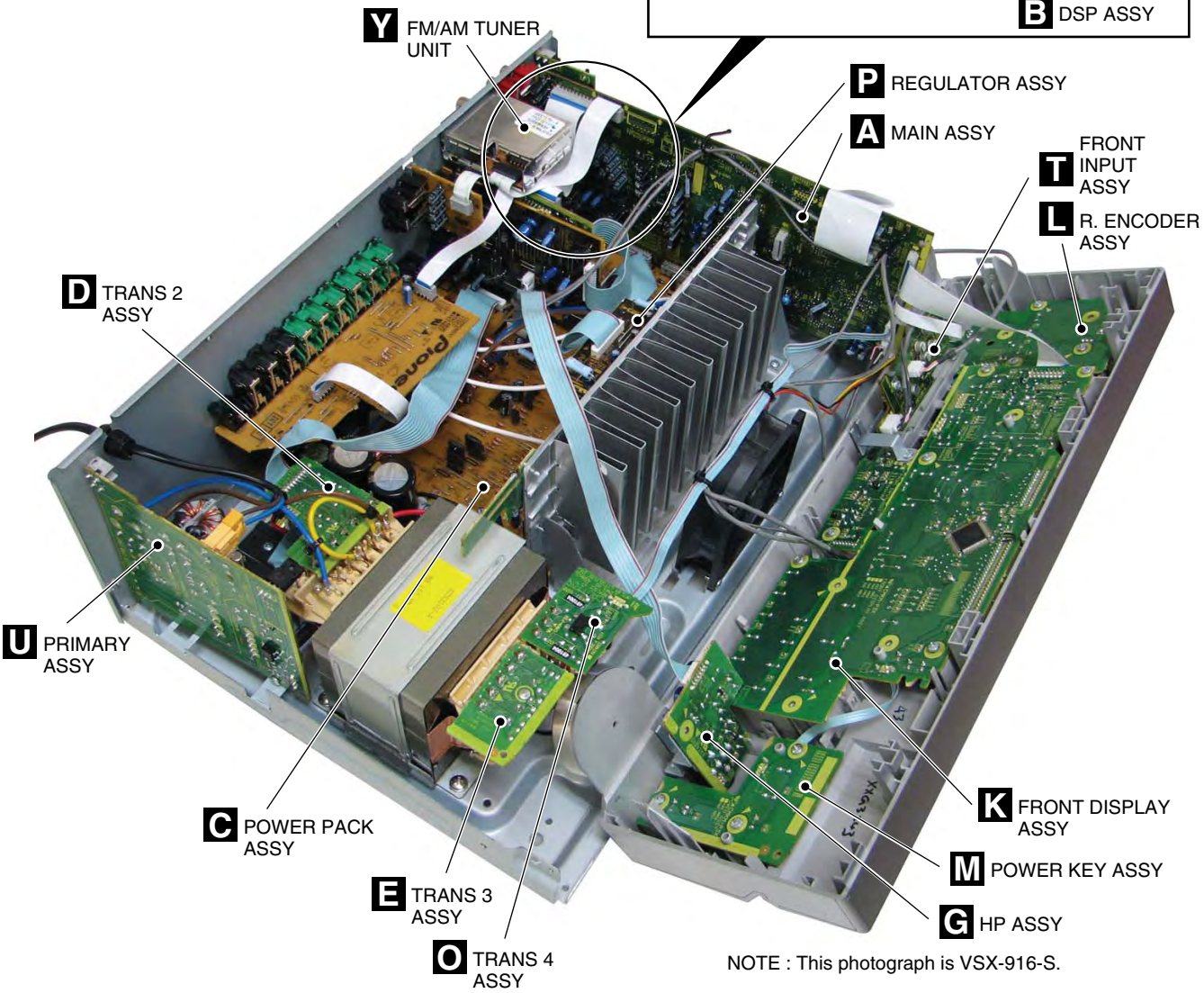
CAUTION:
These 3 screws in the rear panel should be tightened at all times.
They have to be connected to the chassis, otherwise the unit may not work properly.

Note : The unit does not operate when the screws of Speaker Terminal are taken off from Rear Panel.

Heat-sink caution when disassembling : The Heat-sink becomes hot; please take care.







NOTE : This photograph is VSX-916-S.

7.2 PARTS
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

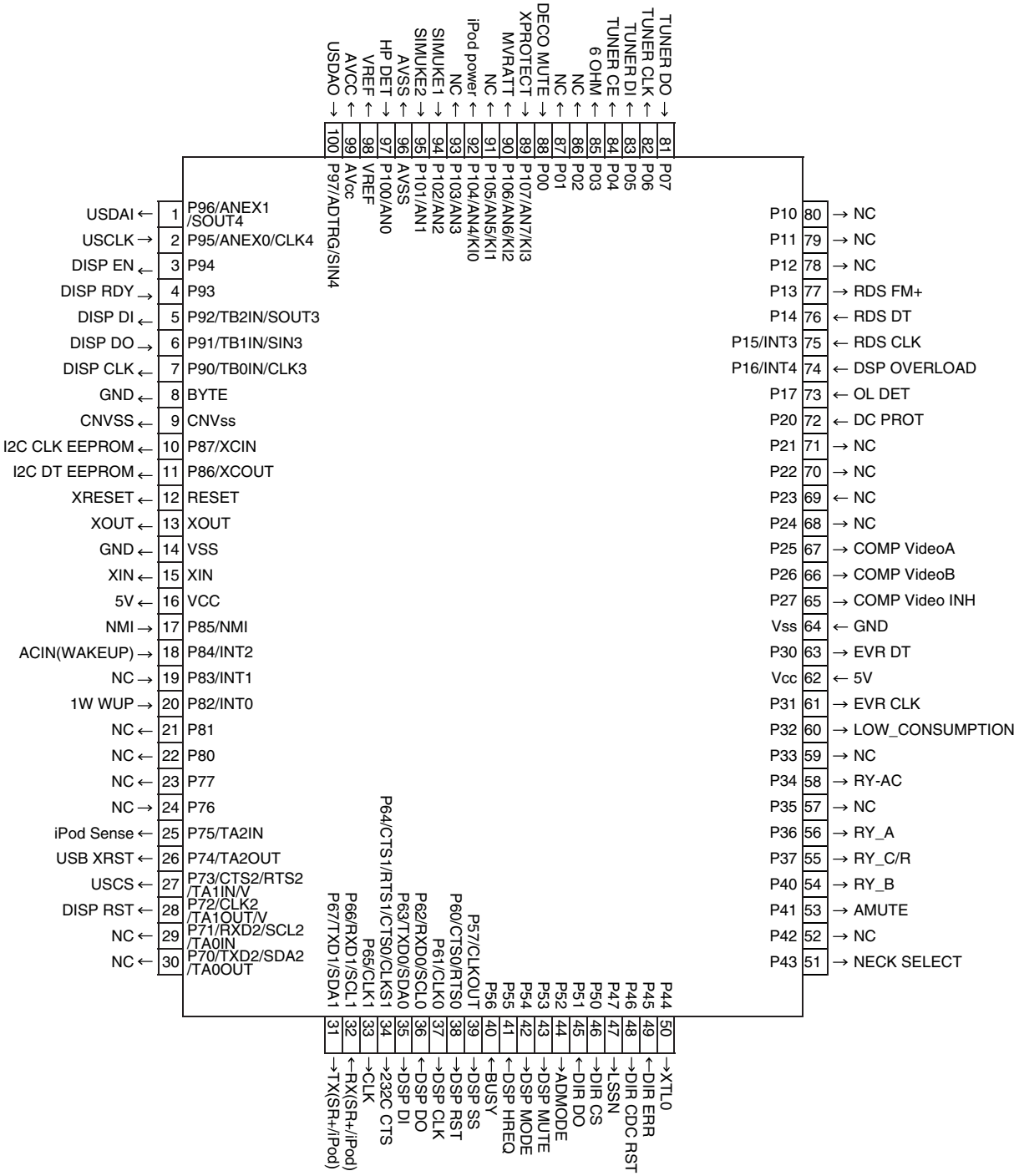
• List of IC

PEG217A, PE5550A, R2S15205FP

■ PEG217A (MAIN ASSY : IC9001)

• System Control MCU

■ Pin Arrangement (Top View)


1 P96/ANEX1 /SOUT4
2 P95/ANEX0/CLK4
3 P94
4 P93
5 P92/TB2IN/SOUT3
6 P91/TB1IN/SIN3
7 P90/TB0IN/CLK3
8 BYTE
9 CNVss
10 P87/XCIN
11 P86/XCOUT
12 RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 P85/NMI
18 P84/INT2
19 P83/INT1
20 P82/INT0
21 P81
22 P80
23 P77
24 P76
25 P75/TA2IN
26 P74/TA2OUT
27 P73/CTS2/RTS2 /TA1IN/V
28 P72/CLK2 /TA1OUT/V
29 P71/RXD2/SCL2 /TA0IN
30 P70/TXD2/SDA2 /TA0OUT
31 P67/TXD1/SDA1
32 P66/RXD1/SCL1
33 P65/CLK1
34 P64/CTS1/RTS1/CTS0/CLKS1
35 P63/TXD0/SDA0
36 P62/RXD0/SCL0
37 P61/CLK0
38 P60/CTS0/RTS0
39 P57/CLKOUT
40 P56
41 P55
42 P54
43 P53
44 P52
45 P51
46 P50
47 P47
48 P46
49 P45
50 P44
51 P43
52 P42
53 P41
54 P40
55 P37
56 P36
57 P35
58 P34
59 P33
60 P32
61 P31
62 Vcc
63 P30
64 Vss
65 P27
66 P26
67 P25
68 P24
69 P23
70 P22
71 P21
72 P20
73 P17
74 P16/INT4
75 P15/INT3
76 P14
77 P13
78 P12
79 P11
80 P10
81 P07
82 P06
83 P05
84 P04
85 P03
86 P02
87 P01
88 P00
89 P107/AN7/KI3
90 P106/AN6/KI2
91 P105/AN5/KI1
92 P104/AN4/KI0
93 P103/AN3
94 P102/AN2
95 P101/AN1
96 AVSS
97 P100/AN0
98 VREF
99 AVcc
100 P97/ADTRG/SIN4
USDAI
USCLK
DISP EN
DISP RDY
DISP DI
DISP DO
DISP CLK
GND
CNVSS
I2C CLK EEPROM
I2C DT EEPROM
XRESET
XOUT
GND
XIN
5V
NMI
ACIN(WAKEUP)
NC
1W WUP
NC
NC
NC
NC
iPod Sense
USB XRST
USCS
DISP RST
NC
NC
NC
NC

• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	USDAI	I/O	No use
2	P95/ANEX0/CLK4	USCLK	I/O	No use
3	P94	DISP EN	I/O	Enable signal to display u-com
4	P93	DISP RDY	I/O	Ready signal from display u-com
5	P92/TB2IN/SOUT3	DISP DI	I/O	Data out to display u-com
6	P91/TB1IN/SIN3	DISP DO	I/O	Data in from display u-com
7	P90/TB0IN/CLK3	DISP CLK	I/O	Clock signal to display u-com
8	BYTE	GND		
9	CNVss	CNVSS		
10	P87/XCIN	I2C CK	I/O	Clock for I2C communication with EEPROM IC
11	P86/XCOUT	I2C DT	I/O	Data for I2C communication with EEPROM IC
12	RESET	XRESET		
13	XOUT	XOUT		
14	VSS	GND		
15	XIN	XIN		
16	VCC	5V		
17	P85/NMI	NMI	I	No use
18	P84/INT2	ACIN(WAKEUP)	I/O	AC pulse in
19	P83/INT1	NC	I/O	Request from TCC760 to main u-com
20	P82/INT0	1W WUP	I/O	wake up signal from display u-com
21	P81	NC	I/O	No use
22	P80	NC	I/O	No use
23	P77	NC	I/O	No use
24	P76	NC	I/O	No use
25	P75/TA2IN	iPod Sense	I/O	No use
26	P74/TA2OUT	USB XRST	I/O	No use
27	P73/CTS2/RTS2/TA1IN/V	USCS	I/O	No use
28	P72/CLK2/TA1OUT/V	DISP RST	I/O	reset signal to display u-com
29	P71/RXD2/SCL2/TA0IN	NC	I/O	
30	P70/TXD2/SDA2/TA0OUT	NC	I/O	
31	P67/TXD1/SDA1	TXD(SR+/iPod)	I/O	SR+/iPod communication
32	P66/RxD/SCL1	RXD(SR+/iPod)	I/O	SR+/iPod communication
33	P65/CLK1	CLK	I/O	It is necessary when writing for JIG
34	P64/CTS1/RTS1/CTSO0/CLKS1	232C CTS	I/O	For rewriting 232C (Admit communication)
35	P63/TXD0/SDA0	DSP DI	I/O	Data output signal for communication with DSP and DIR
36	P62/RxD0/SCL0	DSP DO	I/O	Data input signal for communication with DSP
37	P61/CLK0	DSP CLK	I/O	Clock signal for communication with DSP and DIR
38	P60/CTS0/RTS0	DSP RST	I/O	Reset signal for DSP
39	P57/CLKOUT	DSP SS	I/O	Strobe select signal to DSP
40	P56	BUSY	I/O	Use it in MCACC
41	P55	DSP HREQ	I/O	DSP error detect signal
42	P54	DSP MODE	I/O	Mode select of DSP (ROM/RAM)
43	P53	DSP MUTE	I/O	DSP ASSY mute
44	P52	ADMODE	I/O	DSP ASSY
45	P51	DIR DO	I/O	Data input signal for communication with DIR/DAC
46	P50	DIR CS	I/O	Chip select signal for communication with DIR/DAC
47	P47	LSSN	I/O	DSP ASSY
48	P46	DIR CDC RST	I/O	Reset signal for DIR CODEC
49	P45	DIR ERR	I/O	lock/unlock signal
50	P44	XTL0	I/O	DIR X'tal change

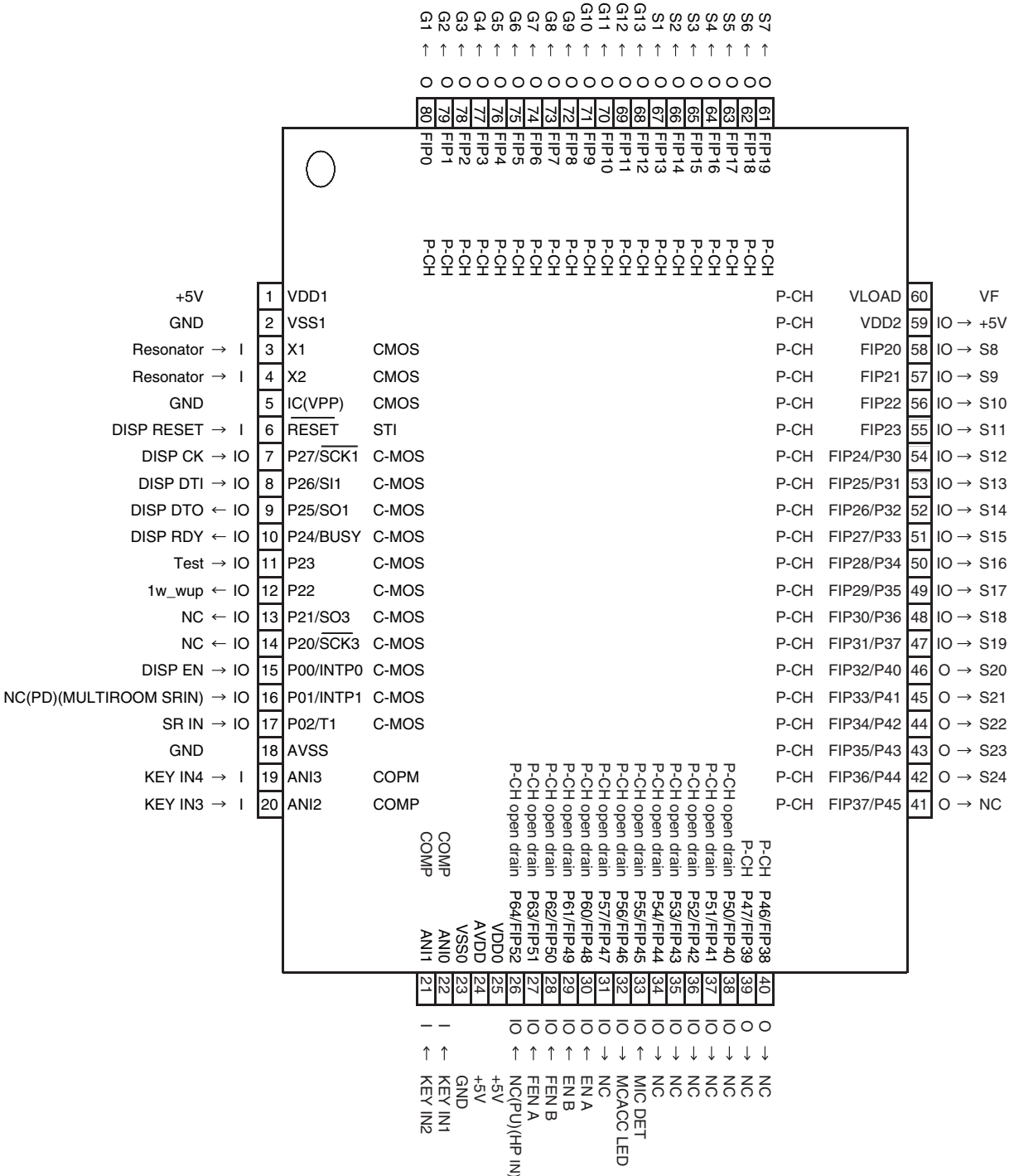
• Pin Function

No.	Port	Pin Name	I/O	Pin Function
51	P43	NECK_SEL	I/O	For 8ohm spk impedance: "H at Adv Surr,Standard,5.1Multich,speaker A+B(7ch model). For 6 ohm spk impedance: L
52	P42	NC	I/O	
53	P41	AMUTE	I/O	System mute
54	P40	RY_B	I/O	Speaker B relay-on / OFF at 916, 816 and 516. This RY_B is used for SW relay at 316.
55	P37	RY_C/R	I/O	Rear one / center relay-on / OFF
56	P36	RY_A	I/O	Speaker A relay-on / OFF
57	P35	NC	I/O	
58	P34	RY-AC	I/O	AC relay on/off
59	P33	VIDEO4	I/O	NJM2296 control (VIDEO input select) (SX316 no connect)
60	P32	LOW_CONSUMPTION	I/O	When 1 minutes passed after power off and then go into stop mode and port L, else H.
61	P31	EVR CLK	I/O	Clock signal for Function and E-volume
62	Vcc	5V		
63	P30	EVR DT	I/O	Data signal for Function and E-volume
64	Vss	GND		
65	P27	COMP VIDEO INH	I/O	Component terminal control
66	P26	COMP VideoB	I/O	Component terminal control
67	P25	COMP VideoA	I/O	Component terminal control
68	P24	SWDET	I/O	"H": SW YES, "L": SW NO(SX316 no connect)
69	P23	VIDEO3	I/O	NJM2296 control (VIDEO input select) (SX316 no connect)
70	P22	VIDEO2	I/O	NJM2296 control (VIDEO input select) (SX316 no connect)
71	P21	VIDEO1	I/O	NJM2296 control (VIDEO input select) (SX316 no connect)
72	P20	DC PROTECT	I/O	Amplifier DC detection. H:Normal, L:Abnormal
73	P17	OL DET	I/O	Amplifier overload detection. H:Normal, L:Abnormal
74	P16/INT4	DSP OL	I/O	ANALOG OVER LOAD detect (H : detect)
75	P15/INT3	RDS CLK	I/O	RDS clock in signal
76	P14	RDS DT	I/O	RDS data in signal
77	P13	RDS FM+	I/O	RDS power supply. FM: Low, AM:High
78	P12	NC	I/O	
79	P11	NC	I/O	
80	P10	NC	I/O	
81	P07	TUNER DO	I/O	Data input signal for tuner contorol
82	P06	TUNER CLK	I/O	Clock signal for tuner contorol
83	P05	TUNER DI	I/O	Data output signal for tuner contorol
84	P04	TUNER CE	I/O	Chip select signal for tuner contorol
85	P03	6 OHM	I/O	if stop mode, port L, else according to setting (J model No connect)
86	P02	NC	I/O	
87	P01	NC	I/O	
88	P00	DECO MUTE	I/O	1st DSP detect port
89	P107/AN7/KI3	XPROTECT	I/O	Power supply abnormal condition detection. H: Normal, L: Abnormal.
90	P106/AN6/KI2	MVRATT	I/O	Master volume ATT control (-15dB or less : L)
91	P105/AN5/KI1	NC	I/O	
92	P104/AN4/KI0	iPod POW	I/O	IPod power supply. H always. When abnormally detecting it, it makes it to L.
93	P103/AN3	NC	I/O	
94	P102/AN2	SIMUKE1	I/O	Input 1 to switch region
95	P101/AN1	SIMUKE2	I/O	Input 2 to switch region
96	AVSS	AVSS		connects with VCC.
97	P100/AN0	HP DET	I/O	HP detection H:detected.
98	VREF	VREF		connects with VCC.
99	AVcc	AVCC		connects with VCC.
100	P97/ADTRG/SIN4	USDAO	I/O	data input from USB

■ PE5550A (FRONT DISPLAY ASSY : IC401)

• System Control MCU

■ Pin Arrangement (Top View)



• Pin Function

No.	Port	Pin Name	I/O	Pin Function
1	VDD1	+5V	-	positive power supply
2	VSS1	GND	-	ground potential
3	X1	Resonator	I	crystal connection for system clock oscillation
4	X2	Resonator	-	crystal connection for system clock oscillation
5	IC(VPP)	GND	-	
6	RESET	DISP RESET	I	receive reset signal from main u-com
7	P27/SCK1	DISP CK	I/O	clock signal from main u-com
8	P26/SI1	DISP DTI	I/O	data input from main u-com
9	P25/SO1	DISP DTO	I/O	data out to main u-com
10	P24/BUSY	DISP RDY	I/O	ready signal from main u-com
11	P23	Test	I/O	test mode input for checker
12	P22	1w_wup	I/O	output wakeup signal to main u-com
13	P21/SO3	NC	I/O	
14	P20/SCK3	NC	I/O	
15	P00/INTP0	DISP EN	I/O	enable signal from main u-com
16	P01/INTP1	NC	I/O	
17	P02/T1	SR IN	I/O	remote control signal input from main room
18	AVSS	GND	-	ground potential for A/D converter
19	ANI3	KEY IN4	I	
20	ANI2	KEY IN3	I	
21	ANI1	KEY IN2	I	
22	ANI0	KEY IN1	I	
23	VSS0	GND	-	ground potential for ports
24	AVDD	+5V	-	analog power voltage input to A/D converter
25	VDD0	+5V	-	positive power supply to ports
26	P64/FIP52	NC	I/O	
27	P63/FIP51	FEN A	I/O	MULTI JOG(Right)
28	P62/FIP50	FEN B	I/O	MULTI JOG(Left)
29	P61/FIP49	EN B	I/O	VOLUME JOG1(-)
30	P60/FIP48	EN A	I/O	VOLUME JOG1(+)
31	P57/FIP47	NC	I/O	NC
32	P56/FIP46	MCACC LED	I/O	MCACC LED output
33	P55/FIP45	MIC DET	I/O	MIC detection. L:detected, H:No detect
34	P54/FIP44	NC	I/O	NC
35	P53/FIP43	NC	I/O	NC
36	P52/FIP42	NC	I/O	NC
37	P51/FIP41	NC	I/O	NC
38	P50/FIP40	NC	I/O	NC
39	P47/FIP39	NC	O	NC
40	P46/FIP38	NC	O	NC
41	FIP37/P45	NC	I/O	NC
42	FIP36/P44	S24	O	Display
43	FIP35/P43	S23	O	Display
44	FIP34/P42	S22	O	Display
45	FIP33/P41	S21	O	Display
46	FIP32/P40	S20	O	Display
47	FIP31/P37	S19	O	Display
48	FIP30/P36	S18	O	Display
49	FIP29/P35	S17	O	Display
50	FIP28/P34	S16	O	Display

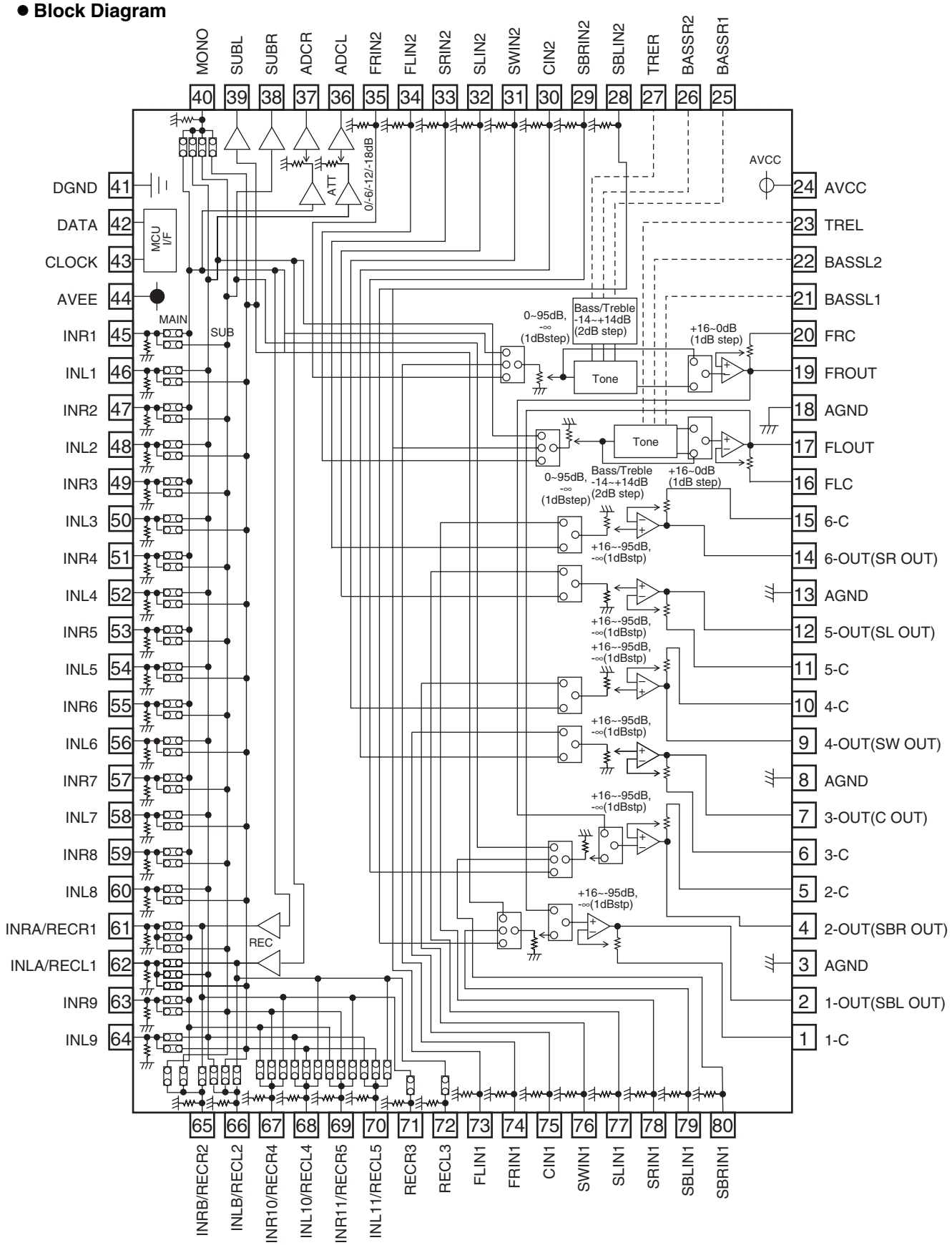
• **Pin Function**

No.	Port	Pin Name	I/O	Pin Function
51	FIP27/P33	S15	O	Display
52	FIP26/P32	S14	O	Display
53	FIP25/P31	S13	O	Display
54	FIP24/P30	S12	O	Display
55	FIP23	S11	O	Display
56	FIP22	S10	O	Display
57	FIP21	S9	O	Display
58	FIP20	S8	O	Display
59	VDD2	+5V	-	positive power supply to FIP controller.
60	VLOAD	VF	-	pull down resistor connection of FIP controller
61	FIP19	S7	O	Display
62	FIP18	S6	O	Display
63	FIP17	S5	O	Display
64	FIP16	S4	O	Display
65	FIP15	S3	O	Display
66	FIP14	S2	O	Display
67	FIP13	S1	O	Display
68	FIP12	G13	O	Display
69	FIP11	G12	O	Display
70	FIP10	G11	O	Display
71	FIP9	G10	O	Display
72	FIP8	G9	O	Display
73	FIP7	G8	O	Display
74	FIP6	G7	O	Display
75	FIP5	G6	O	Display
76	FIP4	G5	O	Display
77	FIP3	G4	O	Display
78	FIP2	G3	O	Display
79	FIP1	G2	O	Display
80	FIP0	G1	O	Display

■ R2S15205FP (MAIN ASSY : IC108)

• 8ch electronic volume with 11 input selectors and tone control

● **Block Diagram**

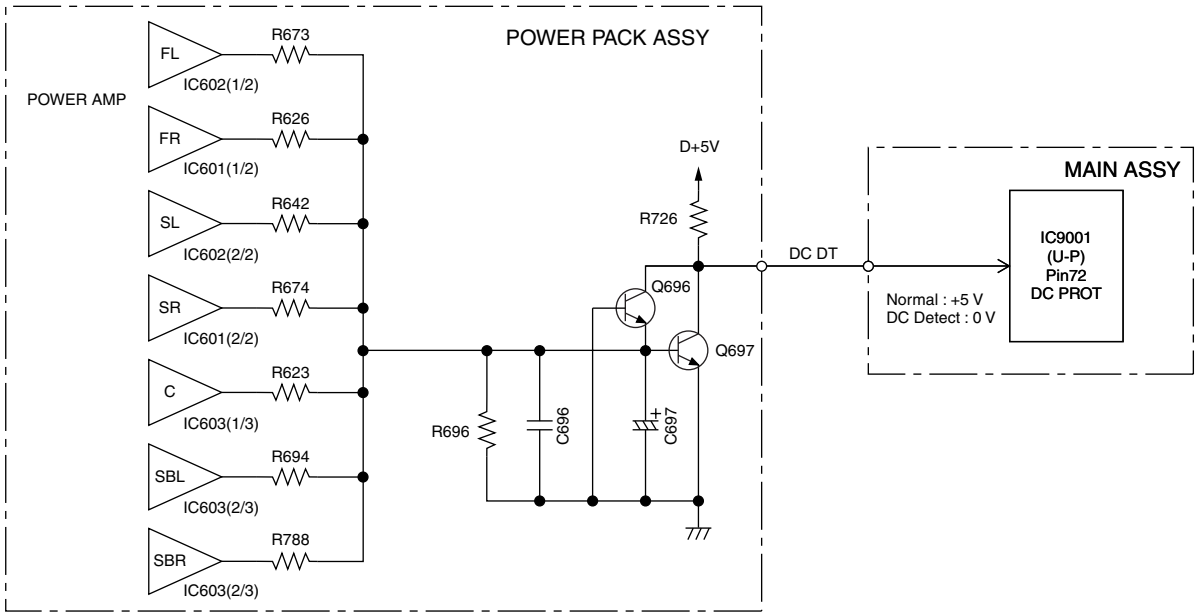


● Pin Function

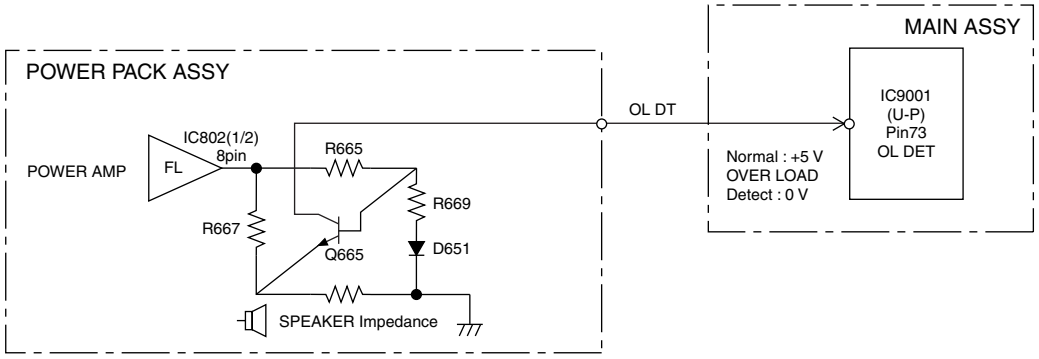
PIN No.	Name	Function
19,17, 14,12, 9,7, 4,2	FROUT,FLOUT, 6-OUT,5-OUT, 4-OUT,3-OUT, 2-OUT,1-OUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
20,16, 15,11, 10,6, 5,1	FRC,FLC, 6-C,5-C, 4-C,3-C, 2-C,1-C	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
3,8, 13,18	AGND	Analog ground of internal circuit
23,27	TREL,TRER	Frequency characteristic setting pin of L/R channel tone control(Treble)
21,22, 25,26	BASSL1,BASSL2, BASSR1,BASSR2,	Frequency characteristic setting pin of L/R channel tone control(Bass)
24	AVCC	Positive power supply to internal circuit
35,34, 33,32, 31,30, 29,28	FRIN2,FLIN2, SRN2,SLIN2, SWN2,CIN2, SBRIN2,SBLIN2,	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel(Multi IN 1/2)
73,74, 75,76, 77,78, 79,80	FLIN1,FRIN1, CIN1,SWIN1, SLIN1SRIN1, SBLIN1,SBRIN1	
41	DGND	Digital ground of internal circuit
42	DATA	Input pin of control data
43	CLOCK	Input pin of control clock
44	AVEE	Negative power supply to internal circuit
46,48,50, 52,54,56, 58,60,64	INL1,INL2,INL3, INL4,INL5,INL6, INL7,INL8,INL9	Input pin of L/R channel(Input Selector)
45,47,49, 51,53,55, 57,59,63	INR1,INR2,INR3, INR4,INR5,INR6, INR7,INR8,INR9	
40	MONO	Input pin of monaural(Input Selector)
38,39	SUBL,SUBR	Output pin for L/R channel SUB Output
36,37	ADCL,ADCR	Output pin for L/R channel ADC
72	RECL3	Output pin for L/R channel REC Output
71	RECR3	
61,62, 65,66, 67,68, 69,70	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5,	Input pin of L/R channel(Input Selector)/ Output pin for L/R channel REC Output

7.3 EXPLANATION
7.3.1 DETECTION CIRCUIT

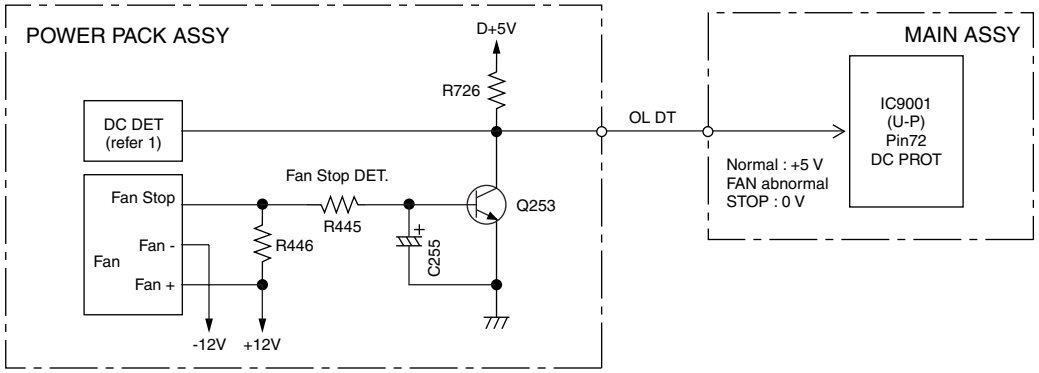
1. DC Derection Circuit Diagram : Example of VSX-816/KUXJ/CA



2. Overload Detection Circuit Diagram: Example of VSX-816/KUXJ/CA FRONT Channel



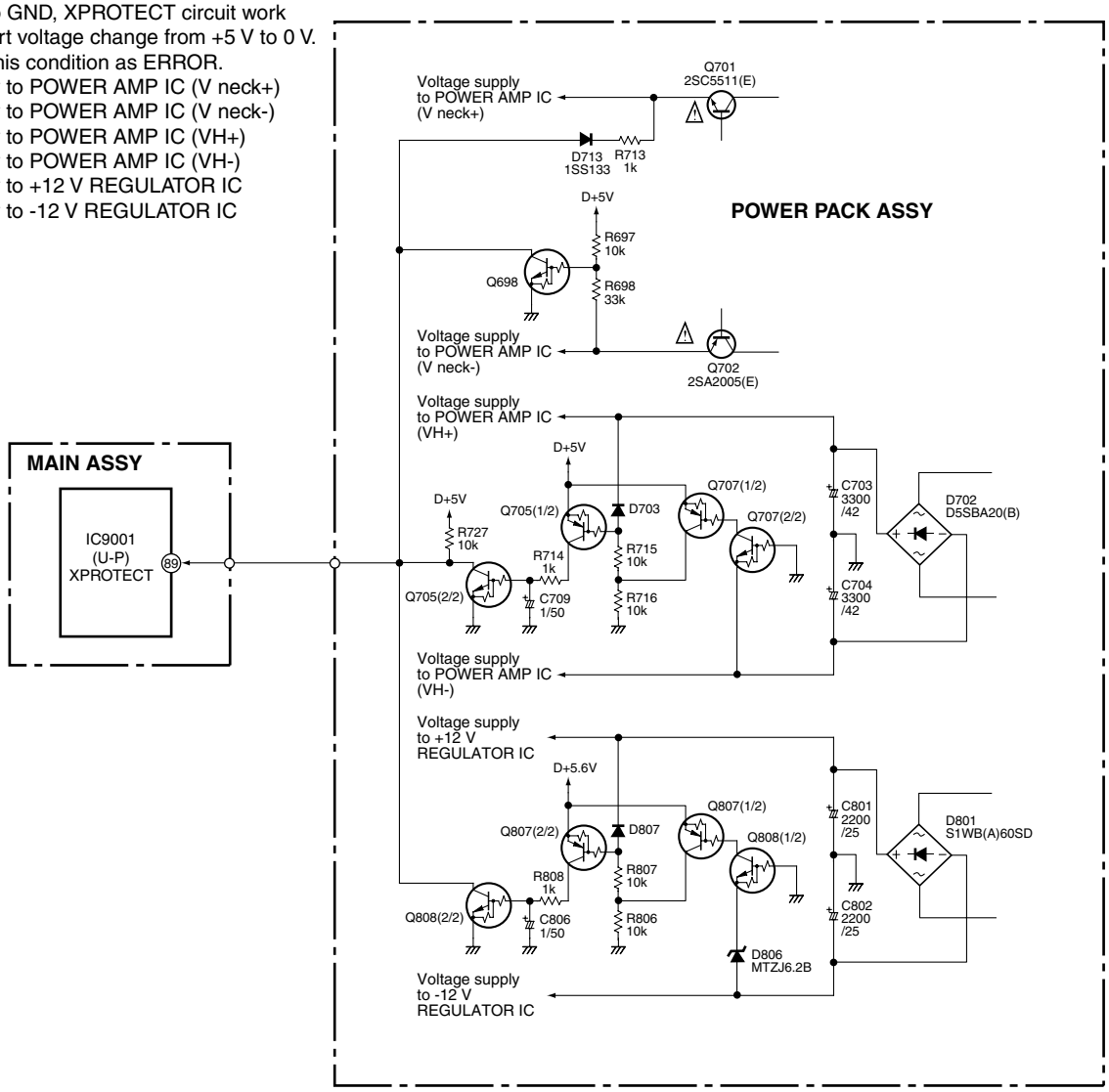
3. Fan Stop Prottection Circuit Diagram



4. XPROTECT Detection Circuit Diagram

When below 6 kind of voltage supply become to be short circuit to GND, XPROTECT circuit work and U-P input port voltage change from +5 V to 0 V. The U-P detect this condition as ERROR.

- Voltage supply to POWER AMP IC (V neck+)
- Voltage supply to POWER AMP IC (V neck-)
- Voltage supply to POWER AMP IC (VH+)
- Voltage supply to POWER AMP IC (VH-)
- Voltage supply to +12 V REGULATOR IC
- Voltage supply to -12 V REGULATOR IC



7.3.2 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

DC detection is only enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.

When a DC abnormality is detected, A.MUTE* is turned on, speaker relay is turned off, then "AMP_ERR" flashes on the display.

*A.MUTE : Audio mute command

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

↓

Power key not effective.

↓ Recovery

The program restarts.

However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.
(②: When a DC abnormality is detected and the power is shut off.)
Any other key input from front panel or remote control will not be detected.

2. Overload detection

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

When an overload is detected, A.MUTE* is turned on, speaker relay is turned off, then "OVERLOAD" flashes on the display.

↓

The abnormality continues for 3 seconds.

↓ Continues.

The power is shut off.

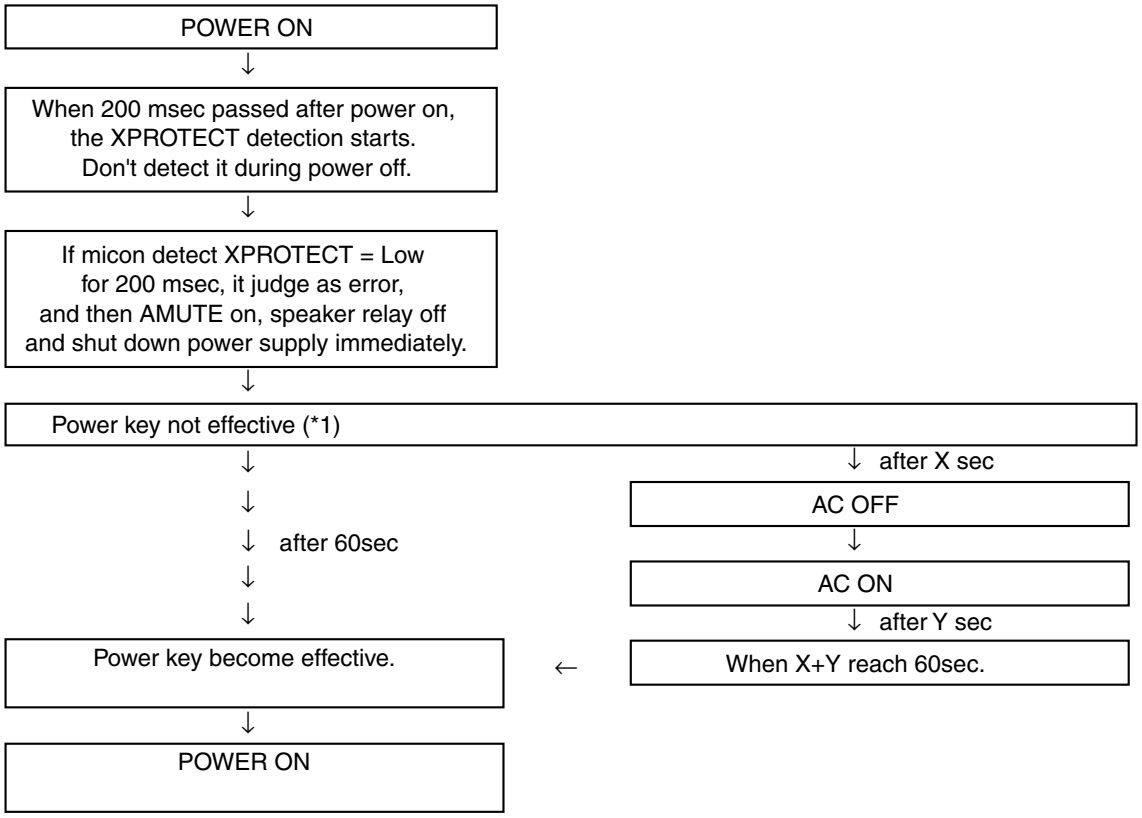
↓ Recovery

The power is shut off even if the unit recovers.

3. XPROTECT detection

XPROTECT is started to be monitored 200msec after power on.
XPROTECT port is checked every 20msec.
If Low level (ERROR) is recognized during consecutive 9 times, micon judge it as XPROTECT ERROR.

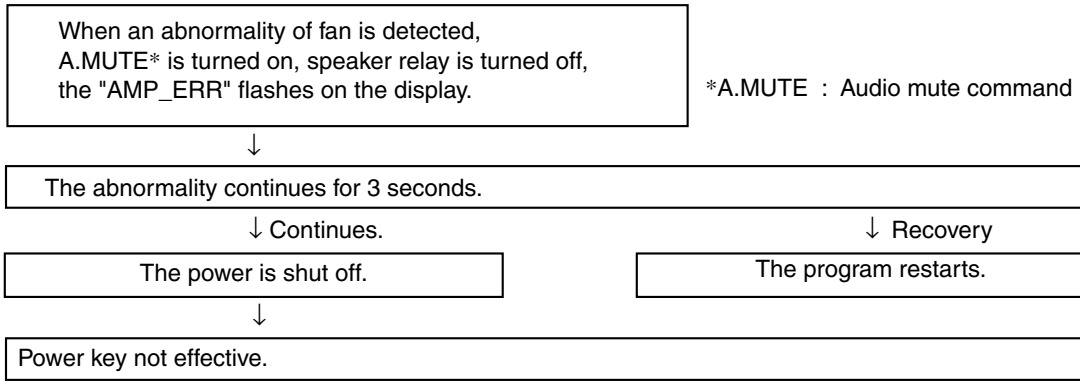
It processes more preferentially than DC abnormal detection and overload detection.


POWER ON
When 200 msec passed after power on, the XPROTECT detection starts. Don't detect it during power off.
If micon detect XPROTECT = Low for 200 msec, it judge as error, and then AMUTE on, speaker relay off and shut down power supply immediately.
Power key not effective (*1)
after 60sec
after X sec
AC OFF
AC ON
after Y sec
When X+Y reach 60sec.
Power key become effective.
POWER ON

(*1) However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.
(Effective, only when power-off is carried out by DC detection / XPROTECT detection)
Any other key input from front panel or remote control will not be detected.

4. Fan stop detection operation flow in the DC abnormality detection

If the fan is forcibly stopped, the 'DC PROT' port becomes "L". Then an abnormality of fan is detected.


When an abnormality of fan is detected, A.MUTE* is turned on, speaker relay is turned off, the "AMP_ERR" flashes on the display.
*A.MUTE : Audio mute command
The abnormality continues for 3 seconds.
Continues.
Recovery
The power is shut off.
The program restarts.
Power key not effective.

However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push FRONT ENTER key + ADVANCED SURROUND key continuously 2sec.
(Effective, only when power-off is carried out by DC detection)

7.3.3 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.
As DC detection and fan stop protection circuits commonly use same abnormality detection port in microprocessor, please make sure that the operation of fan motor is in normal condition before proceeding to the troubleshooting of amplifier.

Caution:
When releasing the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turning on the power once again!

• According to a symptom, perform the following confirmation beforehand.

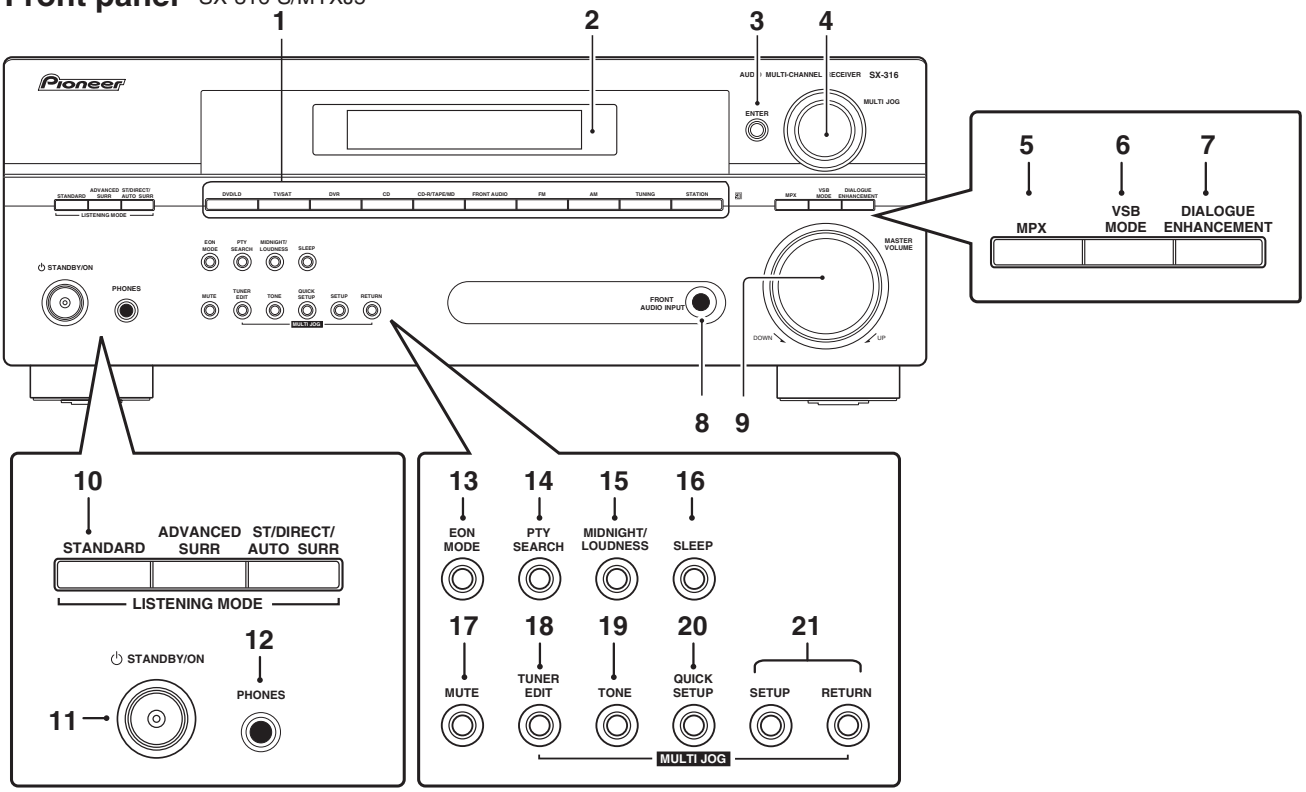
1) Is the operation of fan motor in normal condition?
↓
2) Are there any Fuses and IC protectors open?
↓
3) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate. (Particularly the supply voltage of the power Tr and drive step)
↓
4) Whether the voltage of pin3 of IC600, IC601, IC602 or IC603 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC600, IC601, IC602 or IC603.
↓
5) Furthermore, check the output DC voltage of each channel of power pack IC600, IC601, IC602 and IC603 to limit the failure channel and identify the defect power pack.

↓

• After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

8. PANEL FACILITIES

Front panel SX-316-S/MYXJ5



1 Input select buttons
Press to select an input source.

2 Character display

3 ENTER

4 MULTI JOG dial

5 MPX
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

6 VSB MODE
Selects the Virtual Surround Back (VSB) mode.

7 DIALOGUE ENHANCEMENT
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

8 FRONT AUDIO INPUT

9 MASTER VOLUME
Use to set the listening volume.

10 LISTENING MODE buttons

STANDARD
Press for Standard decoding and to switch between Pro Logic II options.

ADVANCED SURR
Switches between the various surround modes.

ST/DIRECT/AUTO SURR
Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source. Also selects the Auto Surround mode (Auto playback).

11 ⏻ STANDBY/ON
Switches the receiver between standby and on.

12 PHONES jack

13 EON MODE
Use to search for programs that are broadcasting traffic or news information.

14 PTY SEARCH
Use this button to search for RDS program types.

15 MIDNIGHT/LOUDNESS
These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between **MIDNIGHT**, **LOUDNESS**, and **OFF**.

16 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min - 60 min - 90 min - Off**).

17 MUTE
Mutes/unmutes the sound.

18 TUNER EDIT
Press to memorize and name a station for recall.

19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

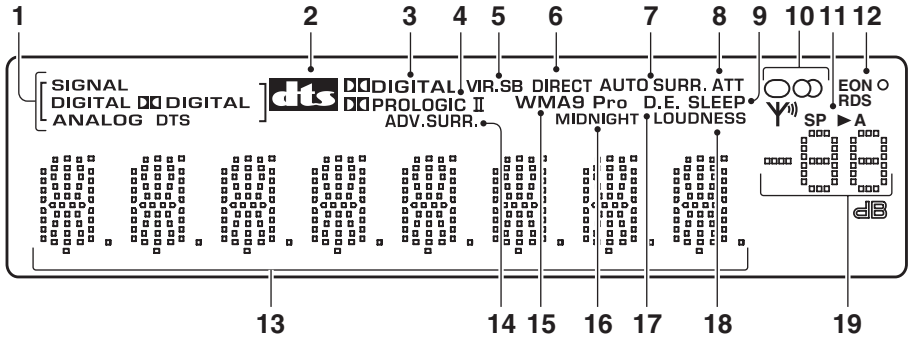
20 QUICK SETUP

21 System Setup menu controls

SETUP
Press to access the System Setup menu.

RETURN
Confirm and exit the current menu screen.

Display SX-316-S/MYXJ5



1 SIGNAL indicators
Lights to indicate the type of input signal assigned for the current component:

DIGITAL
Lights when a Dolby Digital[1] encoded signal is detected.

ANALOG
Lights when an analog signal is detected.

DTS
Lights when a DTS[2] encoded audio signal is detected.

DIGITAL
Lights when a digital audio signal is detected.

2
When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a DTS multichannel signal.

3 DIGITAL
When the **STANDARD** mode of the receiver is on, this lights to indicate decoding of a Dolby Digital multichannel signal.

4 PRO LOGIC II
When the (**STANDARD**) Pro Logic II mode of the receiver is on,**PRO LOGIC II** lights to indicate Pro Logic II decoding (see Listening in surround sound for more on this).

5 VIR. SB
Lights during Virtual surround back processing.

6 DIRECT
Lights when source direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.
Lights when the Auto Surround feature is switched on (see Auto playback).

8 ATT
Lights when **ANALOG ATT** is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP
Lights when the receiver is in sleep mode.

10 Tuner indicators

/ MONO
Lights when the mono mode is set using the **MPX** button.

/ STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.

/ TUNED
Lights when a broadcast is being received.

11 Speaker indicator
Shows if the speaker system is on or not. **SP►A** means the speakers are switched on. **SP►** means the headphones are connected.

12 EON/RDS indicators

EON
Lights when the EON mode is set, and flashes during an EON broadcast. The indicator lights when the current station carries the EON service.

RDS
Lights when an RDS broadcast is received.

13 Character display

14 ADV.SURR. (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

15 WMA9 Pro
Lights to indicate decoding of a WMA9 Pro signal.

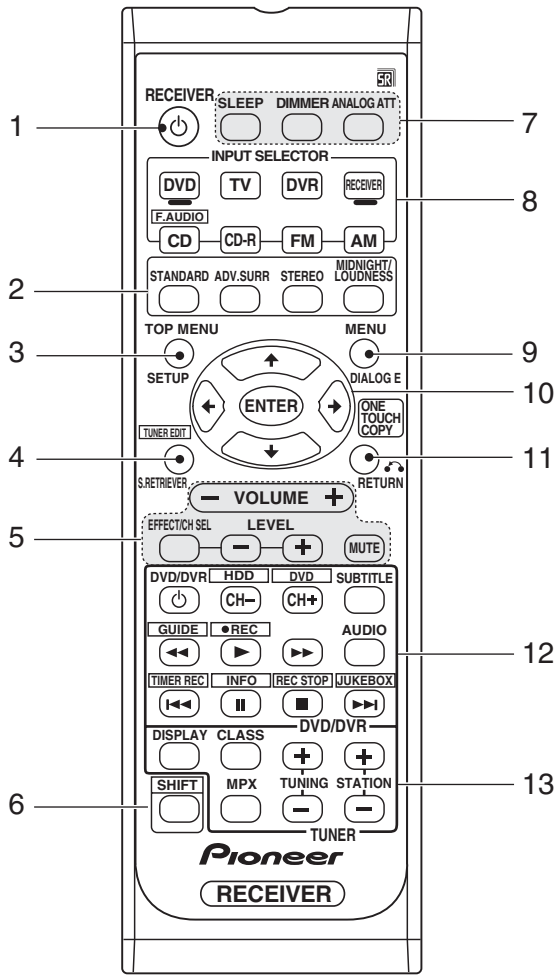
16 MIDNIGHT
Lights during Midnight listening.

17 D.E.
Lights when Dialog Enhancement (**DIALOG E**) is switched on.

18 LOUDNESS
Lights during Loudness listening.

19 Master volume level
Shows the overall volume level. **---dB** indicates the minimum level, and **- 0 dB** indicates the maximum level.

Remote control SX-316-S/MYXJ5



1 RECEIVER
Switches the receiver between standby and on.

2 Listening mode buttons

STANDARD
Press for Standard decoding and to switch between Pro Logic II options.

ADV.SURR.
Switches between the various surround modes.

STEREO
Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source. Also selects the Auto Surround mode(Auto playback.

MIDNIGHT/LOUDNESS
These features give you good sound at low volume levels when listening to movie (Midnight) or music (Loudness) sources. Press to switch between **MIDNIGHT**, **LOUDNESS**, and **OFF**.

3 TOP MENU
Displays the disc "top"menu of a DVD disc.

SETUP
Press to access the System Setup menu.

4 TUNER EDIT*
Press to memorize and name a station for recall.

Also functions as the SETUP button for DVD/DVR units.

S. RETRIEVER
Press to restore CD quality sound to compressed audio sources.

5 RECEIVER CONTROL buttons

VOLUME +/-
Use to set the listening volume.

EFFECT/CH SEL
Press repeatedly to select a channel, then use **LEVEL +/-** to adjust the level.
Also selects the Advanced Surround effect level (use **LEVEL +/-** to adjust).

LEVEL +/-
Use to adjust the effect and channel levels.

MUTE
Mutes/unmutes the sound.

6 SHIFT
Press to access commands in a rectangle (above the buttons) on the remote. These buttons are marked with an asterisk(*) in this section.

7 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min - 60 min - 90 min - Off**).

DIMMER
Dims or brightens the display.

ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

8 INPUT SELECTOR buttons
Press to select an input source (press **DVD/DVR** to use the DVD player/recorder controls on the remote).

RECEIVER
Use to switch to the receiver controls on the remote control. Also used when setting up the surround sound for the receiver.

9 MENU
Displays the disc menu of DVD-Video discs.

DIALOG E
This feature localizes dialog in the center channel to make it stand out from other background sounds in a TV or movie soundtrack.

10 ↑↓←→ / ENTER

11 RETURN
Confirm and exit the current menu screen.

ONE TOUCH COPY*
Copies the currently playing title from DVD to HDD or vice-versa.

12 DVD/DVR control buttons
You can use these buttons to control a Pioneer DVD player or recorder connected to your system.(press **DVD/DVR** to access the below controls).

Button	What it does
DVD/ DVR⏻	Turns DVD player or DVD recorder power on/off.
AUDIO	Changes the audio language or channel.
SUBTITLE	Displays/changes the subtitles on multilingual DVD-Video discs.
CH +/-	Switches channels.
►	Starts/resumes normal playback.
II	Pauses/unpauses a disc.
■	Stops playback.
◄◄	Press to start fast reverse scanning.
►►	Press to start fast forward scanning.
I◄◄	Skips to the start of the current track or chapter, then previous tracks/chapters.
►►I	Skips to the next track or chapter.
HDD/ DVD*	Switch between the hard disk and DVD controls for DVD/HDD recorders.
GUIDE*	Displays the guides on a DVD recorder.
●REC*	Starts recording.
TIMER REC*	Accesses the timer recording menu.
INFO*	Displays additional EPG information.
REC STOP*	Stops recording.
JUKEBOX*	Switches to the Jukebox feature.
TUNER EDIT*	Press to access the SETUP menu .

13 TUNER controls
The **TUNING +/-** buttons can be used to find radio frequencies and the **STATION +/-** buttons can be used to select preset radio stations.

DISPLAY
Switch the display between station preset name, frequency (see tip on) and RDS data.

CLASS
Switches between the three banks (classes) of station presets.

MPX
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

About the WMA9 Pro decoder

This unit has an on-board Windows Media® Audio 9 Professional (WMA9 Pro) decoder, so it is possible to playback WMA9 Pro-encoded audio using a coaxial or optical digital connection when connected to a WMA9 Pro-compatible player. However, the connected DVD player, set-top box, etc. must be able to output WMA9 Pro format audio signals through a coaxial or optical digital output.

Microsoft, Windows Media®, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008